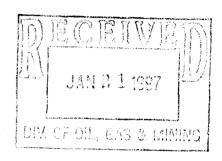
## Petroglyph Operating Co., Inc. P.O. Box 1839

Hutchinson, KS 67504-1839

January 13, 1997

Utah Division of Oil, Gas, & Mining Attn: Mr. Frank Matthews, Petroleum Engineer 1594 West North Temple Box 145801 Salt Lake City, UT 84114-5801



RE: APPLICATION FOR PERMIT TO DRILL UTE TRIBAL #18-06 SE/NW SEC. 18, T5S, R3W DUCHESNE COUNTY, UTAH LEASE NO. BIA 14-20-H62-3513 **UTE TRIBAL LANDS** 

Dear Mr. Matthews:

Enclosed please find a copy of the Application for Permit to Drill and associated attachments for the referenced well.

Please address further communication regarding this matter (including approval) to:

**Ed Trotter** P.O. Box 1910 Vernal, UT 84078 Phone # (801) 789-4120 Fax # (801) 789-1420

Ed Trotter

Since

Petroglyph Operating Co., Inc.

Attachments

/EHT/dmt

Form 3160-3 (July 1992)

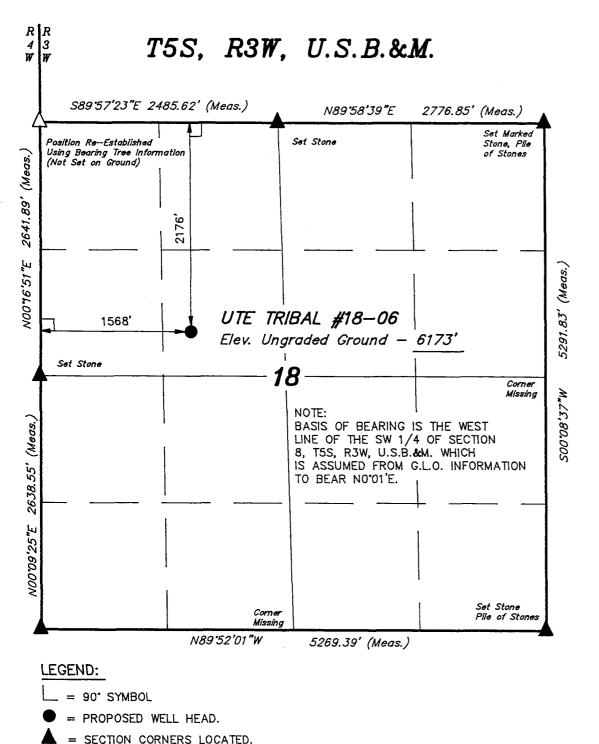
# **UNITED STATES**

SUBMIT IN TR (Other instructions on reverse side)

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

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	BUREAU OF	LAND MANA	GEMEN	٦٢			14-20-н6	2-3513		
APPL	ICATION FOR P	ERMIT TO	DRIL	L OR DE	EPEN	<del></del>	6. IF INDIAN, ALLOT	TEE OR TRIBE NAME		
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	ILL X	DEEPEN					7. UNIT AGREEMENT	NAME		
b. TYPE OF WELL	AS []		S.	INGLE [	MULTIP					
WELL V WELL OTHER ZONE ZONE ZONE						LJ	8. FARM OR LEASE NAME, WELL NO.			
			_				9. API WELL NO.	AL		
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		NO MÍT	266				#18-06 10. FIELD AND POOL	, OR WILDCAT		
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21. ELEVATIONS (Show wh	•							WORK WILL START*		
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(This space for Fede	ral or State office use)									
PERMIT NO. 43	+013-3179	<u> </u>		APPROVAL DAT	ге					
	not warrant or certify that the app	olicant holds legal or e	quitable ti	tle to those rights	in the subject l	ease which wo	ould entitle the applicant to	conduct operations thereon.		
CONDITIONS OF APPROVAL	L, IF ANY:	1.					ſ	i		
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APPROVED BY	MX X M	T// nile					DATE V	1191,		

\*See Instructions On Reverse Side

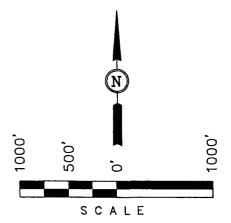


#### PETROGLYPH OPERATING CO., INC.

Well Location, UTE TRIBAL #18-06, located as shown in SE 1/4 NW 1/4 of Section 18, T5S, R3W, U.S.B.&M. Duchesne County, Utah.

#### BASIS OF ELEVATION

SPOT ELEVATION AT THE NORTHEAST CORNER OF SECTION 18, T5S, R3W, U.S.B.&M. TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5943 FEET.



#### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

REGISTERED LAND SURVEYOR ( REGISTRATION NO. 161319 STATE OF UTAH

#### UINTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (801) 789-1017

		(55.	٠, ٠	00 2011	
SCALE 1" = 1	000'			DATE SURVEYED: 10-8-96	DATE DRAWN: 10-11-96
PARTY B.B.	в.н.	C.B.T.		REFERENCES G.L.O. PLA	AT
WEATHER			FIL		
WARM 1			PE	TROGLYPH OPE	RATING CO., INC.

State of Utah Division of Oil, Gas & Mining 1594 West North Temple Box 145801 Salt Lake City, UT 84114-5801

January 31, 1997

RE: Application for Exception Well Location Proposed Ute Tribal #18-06 Township 5 South, Range 3 West Section 18: SE/4 NW/4 Duchesne County, Utah

#### Gentlemen;

Petroglyph Operating Company, Inc. (Petroglyph) respectfully requests administrative approval per R-649-3-3 to drill the Ute Tribal #18-06 a 6012' Green River test, at a location 2176' FNL & 1568' FWL, SE/4 NW/4, Section 18. Township 5 South Range 3 West, Duchesne County, Utah.

The aforementioned footage is not a location at which a well could be drilled in compliance with the spacing order of this lease, which established 40 acre drilling units.

Enclosed is a topographic map which depicts the surface contour in the area of the subject location. Petroglyph believes the proposed exceptionally spaced location to be the preferred location from a construction standpoint. Also this location is preferred by the Bureau of Indian Affairs Resource Department and the Ute Indian Tribe, Energy and Minerals Department who regulate activities on this land.

Petroglyph Operating Company Inc. holds 100% of the operating rights underlying the subject drilling unit as well as drilling units to the north, south, east and west.

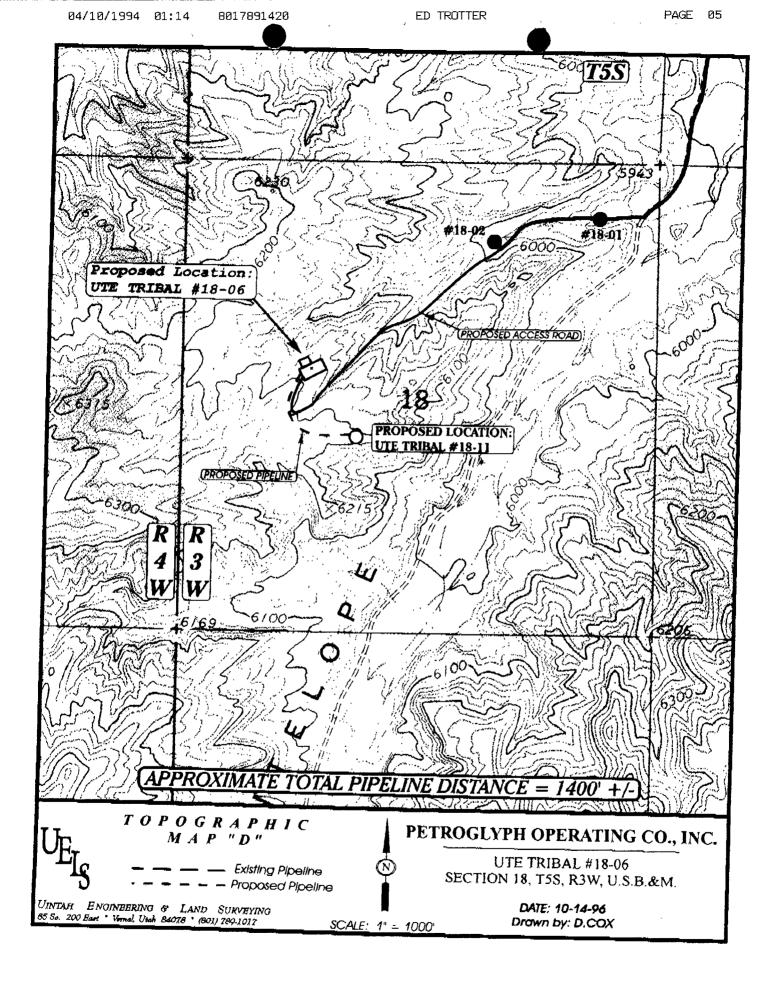
Petroglyph respectfully requests the Division of Oil, Gas and Mining Administratively grant this application for the exceptional well location at its earliest opportunity.

Please direct further correspondence and approval to myself at P.O. Box 1910, Vernal, Utah 84078, or phone me at 801-789-4120.

Sincerely

Petroglyph Operating Company Inc.

Ed Trotter, Agent



#### **EIGHT POINT PLAN**

#### UTE TRIBAL #18-06 SE/NW SEC. 18, T5S R3W DUCHESNE COUNTY, UTAH

#### 1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Mahogany Shale	2805.9	3371
'X' marker	4396.9	1780
Douglas Creek	4536.9	1640
"B" Limestone	4921.9	1255
B/Castle Peak Limestone	5480.9	696
Basal Carbonate Limestone	5901.9	275
Total Depth	6011.9	165

Anticipated BHP 2600 psi

### 2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS FORMATIONS:

<u>Substance</u>	<b>Formation</b>	<u>Depth</u>	Subsea
Oil/Gas	Douglas Creek	4536.9	1640
Oil/Gas	B/Castle Peak	5480.9	696
Other mineral zones	N/A		

3. PRESSURE CONTROL EQUIPMENT: BOP Schematic Diagram attached.

#### 4. CASING PROGRAM:

						MINIMUM S	SAFELY FA	CIOR
HOLE SIZ	E INTERVAL	<b>LENGTH</b>	<u>SIZE</u>	<b>WEIGHT</b>	<b>GRADE</b>	COLLAPS	E BURST T	<b>ENSILE</b>
12 1/4	0' - 250'	250'	8 5/8	24.0 #	J-55	1370 PSI	2950 PSI	263,000#
7 7/8	0' - 6011.9'	6011.9'	5 1/2	15.5 #	M-50	3650 PSI	4550 PSI	186,000#

All casing will be new or inspected.

#### **EIGHT POINT PLAN**

#### UTE TRIBAL #18-06 SE/NW SEC. 18, T5S R3W DUCHESNE COUNTY, UTAH

#### 5. MUD PROGRAM

INTERVAL	MUD TYPE
0' - 250'	Air
250' - 4000'	Air/Mist & Aerated Water
4000' - TD	Air/3% KCL water or KCL substitute
TD	Gel/polyacrylamide plolymer w/5-10% LCM

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

#### 6. **VARIANCE REQUESTS:**

- A. Petroglyph Operating Co., Inc. requests a variance to regulations requiring a straight run blooie line.
- B. Petroglyph Operating Co., Inc. requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line.

#### 7. EVALUATION PROGRAM:

Logs:	Mud Logging	T.D. to base of surface csg.
	Compensated Density-Compensated Neutron Log	T.D. to base of surface csg.
	Dual Laterolog - Micro-SFL	T.D. to base of surface csg.
	Numar (Magnetic Resonance Imaging Log)	@ Geologists discretion

Cores: None Programmed DST': None Programmed

Completion: To be submitted at a later date.

#### 8. ABNORMAL CONDITIONS:

None anticipated.

#### **EIGHT POINT PLAN**

#### UTE TRIBAL #18-06 SE/NW SEC. 18, T5S R3W DUCHESNE COUNTY, UTAH

#### 9. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

#### 10. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in associaton with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in associaton with the drilling of this well.

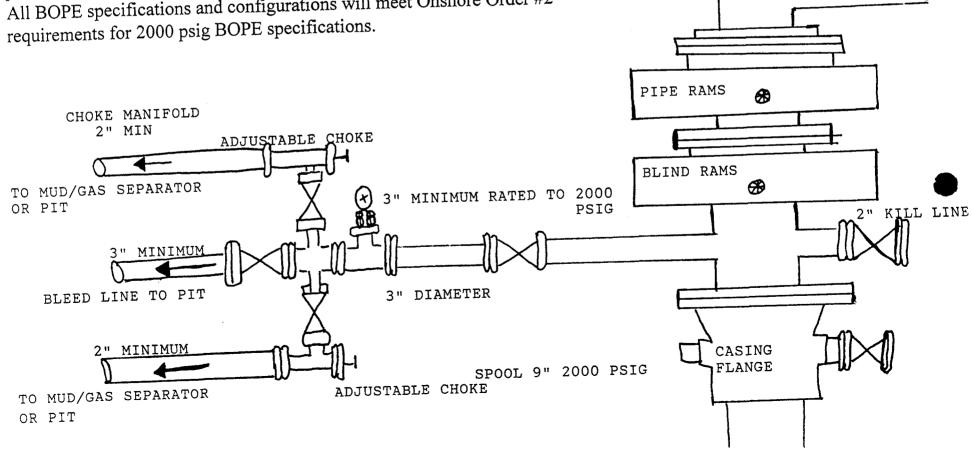
(Attachment: BOP Schematic Diagram)

### 2000 PSIG DIAGRAM

BOTH RAMS ARE 2000 PSIG RATED. CASING FLANGE IS 9" 2000 PSIG RATED. BOPE 9" 2000 PSIG

## **TESTING PROCEDURE:**

- 1. BOPE 's will be tested with a professional tester to conform to Onshore Order #2 with retest every 14 days.
- 2. Blind rams will be tested to rated working pressure, 2000 psig
- 3. Casing will be tested to 0.22 psi/ft. or 1500 psig. Not to exceed 70% of burst strength, whichever is greater.
- 4. All lines subject to well pressure will be pressure tested to the same pressure as blind & pipe rams.
- 5. All BOPE specifications and configurations will meet Onshore Order #2 requirements for 2000 psig BOPE specifications.



ROTATING

HEAD

FLOW LINE

# CONDITIONS OF APPROVAL FOR THE SURFACE USE PROGRAM OF THE APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Co., Inc.

Well Name & Number: <u>Ute Tribal #18-06</u> Lease Number: <u>BIA 14-20-H62-3513</u>

Location: 2176' FNL & 1568' FWL SE/NW, Sec. 18, T5S R3W

U.S.B.&M., Duchesne County, Utah

Surface Ownership: Ute Indian Tribe

#### NOTIFICATION REQUIREMENTS

Location Construction - forty-eight (48) hours prior to construction of location and access roads.

Location Completion - prior to moving on the drilling rig.

Spud Notice

- at least twenty-four (24) hours prior to spudding the

well.

Casing String and

Cementing

- twenty-four (24) hours prior to running casing and

cementing all casing strings.

BOP and related

**Equipment Tests** 

- twenty-four (24) hours prior to running casing and

tests.

First Production

Notice

- within five (5) business days after new well begins

or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice To Drill and Surface Use Program.

#### THIRTEEN POINT SURFACE USE PROGRAM

#### 1. EXISTING ROADS

- A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing road.
- B. The proposed well site is located approximately 18.7 miles southwest of Myton, Utah See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary. No off lease Right-of-Way will be required.

#### 2. PLANNED ACCESS ROAD

- A. The access road will be approximately 0.7 miles in length. See attached TOPO Map "B"
- B. The access road has a 30 foot ROW w/18 foot running surface.
- C. Maximum grade on access road will be 8%
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No culverts, bridges or major cuts & fills will be required.
- G. The access road will be dirt surface.
- H. No gates, cattleguards or fences will be required or encountered.

New or reconstructed roads will be centerlined - flagged at time of location staking.

All travel will be confined to existing access road Right-of-Way. Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service Publication: Surface Operating Standards For Oil & Gas Exploration and Development, (1989).

The road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall include ditching, drainage, graveling, crowning, and capping the

roadbed as necessary to provide a well-constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot Right-of- Way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by run off water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

As operator, Petroglyph Operating Co., Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

# 3. LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION

- A. Water wells None
- B. Abandoned wells None
- C. Temporarily abandoned wells None.
- D. Disposal wells None.
- E. Drilling wells None.
- F. Producing wells 8\*
- G. Shut in wells None
- H. Injection wells None(\*See attached TOPO map "C" for location)

#### 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

#### A. ON WELL PAD

- 1. Tank batteries None
- 2. Production facilities-To be submitted later
- 3. Oil gathering lines None

- 4. Gas gathering lines-None
- 5. Injection lines None
- 6. Disposal lines None
- 7. Surface pits None

#### B. OFF WELL PAD

- 1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
- 2. A 4 1/2" OD steel above ground production pipeline will be laid approximately 3650' from proposed location to a point in the NW/NE of Section 18, T5S, R3W, where it will tie into Petroglyph Operating Co., Inc.'s existing facility at the Ute Tribal #18-02 tank battery. Proposed pipeline crosses Ute Tribe lands, thus a Right-of-Way grant will be required. See attached TOPO Map D showing pipeline route.
- 3. Proposed pipeline will be a 4 1/2" OD steel, welded line laid on the surface.
- 4. Protective measures and devices for livestock and wildlife will be taken and/or installed where required.

If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain, at a minimum, the entire contents of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.

The production facilities will be placed on the Ute Tribal #18-02 location.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities required will be painted within 6 months of installation. Facilities required to comply with O.S.H.A.

(Occupational Safety and Health Act) will be excluded. The required paint color is Desert Brown.

#### 5. LOCATION & TYPE OF WATER SUPPLY

- A. Water supply will be from Target Trucking's Roosevelt Brine Storage and/or Target's water source in SE 1/4, Sec. 1, T 4S, R 5W Duchesne County, Utah (State water right #43-10152). All water will come from a non-depletable source.
- B. Water will be hauled by Target Trucking.
- C. No water well will be drilled on lease.

#### 6. SOURCE OF CONSTRUCTION MATERIAL

- A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of location.
- B. All construction material will come from Ute Tribal Land.
- C. No mineral materials will be required.

#### 7. METHODS OF HANDLING WASTE DISPOSAL

#### A. METHODS AND LOCATION

- 1. Cuttings will be confined in the reserve pit.
- 2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.
- 3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at an approved waste disposal facility.
- 4. Produced waste water will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, together with the required water analysis, will be submitted for the AO's approval.

- 5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on drilling rig to avoid leakage of oil to pit.
- B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in reserve pit or be removed and disposed of at an authorized disposal site.

  Introduction of well bore hydrocarbons to reserve pit will be avoided by flaring them off in flare pit at time of recovery.

Burning of trash will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

#### On BIA administered land:

All reserve pits will be lined with either native clay, commercial bentonite or plastic sufficient to prevent seepage. (If a plastic nylon reinforced liner is used, it shall be torn and perforated after the pit dries and before backfilling of the reserve pit).

A 12 mill liner shall be installed in the reserve pit.

To protect the environment:

If the reserve pit is lined the operator will provide the BIA with a chemical analysis of the fluids in that pit no later than 90 days after the well completion to determine the method for final reclamation of the reserve pit. If the elemental concentrations shown by the chemical analysis exceeds the requirements described by part II, Standards of Quality for Waters of the State,

Wastewater Disposal Regulations, State of Utah Division of Health, the contents and liner will be removed and disposed of at an authorized disposal site.

To protect the environment (without a chemical analysis) reserve pits will be constructed so as not to leak, break, or allow discharge of liquids.

Storage tanks will be used if drill sites are located on tribal

irrigable land, flood plains, or on lands under crop production. After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with NTL-2B, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

#### 8. ANCILLARY FACILITIES

A. No airstrips or camps are planned for this well.

#### 9. WELL SITE LAYOUT

- A. Refer to attached well site plat for related topography cuts and fills & cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.
- C. Refer to attached well site plat for rig orientation parking areas, and access road.

The reserve pit will be located on the Northwest side of the location. The flare pit will be located downwind of the prevailing wind direction on the Northwest side of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.

The stockpiled topsoil will be stored on the Southwest end beside access road and kept separate from pit spoils stock pile.

Access to the well pad will be from the Southwest.
N/A Diversion ditch(es) shall be constructed on the
side of the location (above/below) the cut slope, draining to
the
N/A Soil compacted earthen berm(s) shall be placed on the
side(s) of the location between the
N/A The drainage(s) shall be diverted around the sides of the well pad location
N/A The reserve pit and/or pad locations shall be constructed long and
narrow for topographic reasons

X Corners No. 2, 4, & 8 will be rounded off to minimize excavation.

#### **FENCING REQUIREMENTS**

All pits will be fenced according to the following minimum standards:

- A. 39 inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
- B. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- D. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16'.
- E. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BIA or SMA specifications. A cattleguard with an adjacent 16 foot gate shall be installed in any fence where a road is to be regularly travelled. If the well is a producer, the cattleguards (shall/shall not) be permanently mounted on concrete bases. Prior to a new road, crossing any fence located on federal land, or any fence between federal land and private land, the operator will contact the BIA, who will in turn contact the grazing permittee or owner of said fence and offer

him/her the opportunity to be present when the fence is cut in order to satisfy himself/herself that the fence is adequately braced and tied off.

#### 10. PLANS FOR RESTORATION OF SURFACE

#### A. PRODUCING LOCATION

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 120 days from the date of well completion (weather permitting). Before any dirt work takes place, the reserve pit will be completely dry and all cans, barrels, pipe, fluid, and hydrocarbons, will be removed.

Contact appropriate surface management agency for required seed mixture.

#### B. DRY HOLE/ABANDONED LOCATION

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and BIA will attach the appropriate surface rehabilitation conditions of approval.

#### ON BIA Administered lands:

Abandoned well sites, roads, or other disturbed areas will be restored to near their original condition. This procedure will include: (a) reestablishing irrigation systems where applicable, (b) reestablishing soil conditions in irrigated fields in such a way as to ensure cultivation and harvesting of crops and, (c) ensuring revegetation of the disturbed areas to the specifications of the Ute Indian Tribe or the BIA at the time

of abandonment.

#### 11. SURFACE OWNERSHIP

Access road:

**Ute Indian Tribe** 

Location:

**Ute Indian Tribe** 

#### 12. OTHER INFORMATION

A. Petroglyph Operating Co., Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and contact the AO. Within five working days the AO will inform the operator as to:

-whether the materials appear eligible for the National Register of historic Places;

the mitigation measures the operator will likely have to undertake before the site can be used.

-a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

B. As operator, Petroglyph Operating Co., Inc. will control noxious weeds along Right-of-Ways for roads, pipelines, well sites, or other applicable

facilities. A list of noxious weeds will be obtained from the BIA, or the appropriate County Extension Office. On BIA administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.

C. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Tribal Lands after the conclusion of drilling operations or at any other time without BIA authorization. However, if BIA authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

#### On BIA administered land:

Operator's employees, including subcontractors, will not gather firewood along roads constructed by operators. If wood cutting is required, a permit will be obtained from the Forestry Department of the BIA pursuant to 25 CFR 169.13 "Assessed Damages Incident to Right-of-Way authorization". All operators, subcontractors, vendors, and their employees or agents may not disturb saleable timber (including firewood) without a duly granted wood permit from the BIA Forester.

If the surface rights are owned by the Ute Indian Tribe and mineral rights are owned by another entity, an approved right-of-way will be obtained from the BIA before the operator begins any construction activities. If the surface is owned by another entity and the mineral rights are owned by the Ute Indian Tribe, rights-of-way will be obtained from the other entity.

All roads constructed by operators on the Uintah and Ouray Indian Reservation will have appropriate signs. Signs will be neat and of sound construction. They will state: (a) that the land is owned by the Ute Indian Tribe, (b) the name of the operator, (c) that firearms are prohibited to all non-Ute Tribal members (d) that permits must be obtained from the BIA before cutting firewood or other timber products, and (e) only authorized personnel permitted. All well site locations on the Uintah and Ouray Indian Reservation

will have an appropriate sign indicating the name of the operator, the lease serial number, the well name and number, the survey description of the well (either footage or the quarter-quarter section, the section, township, and range).

Addıtı	onal Surface Stipulations							
N/A	_No construction or drilling activities shall be conducted between							
	andbecause of							
N/A	_No surface occupancy will be allowed within 1,000 feet of any sage grouse strutting ground.							
NI/A	_No construction or exploration activities are permitted within 1.5							
IN/A	mile radius of sage grouse strutting grounds from April 1 to June 30.							
N/A	_There shall be no surface disturbance within 600 feet of live water							
	(includes stock tanks, springs, and guzzlers).							
N/A	_No cottonwood trees will be removed or damaged.							
N/A	Pond will be constructed according to BLM specifications							
	approximatelyft of the location, as flagged on onsite.							

#### LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION

**PERMITTING** 

Ed Trotter	Vince Guinn
1620 West 750 North	P.O. Box 607
Vernal UT 84078	Roosevelt, UT 84066
Telephone # (801)789-4120	(801) 722-2531
Fax # (801) 789-1420	Fax # (801) 722-9145

**OPERATIONS** 

All lease/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to Lessees. Petroglyph Operating Co., Inc. is fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the

field representative to insure compliance.

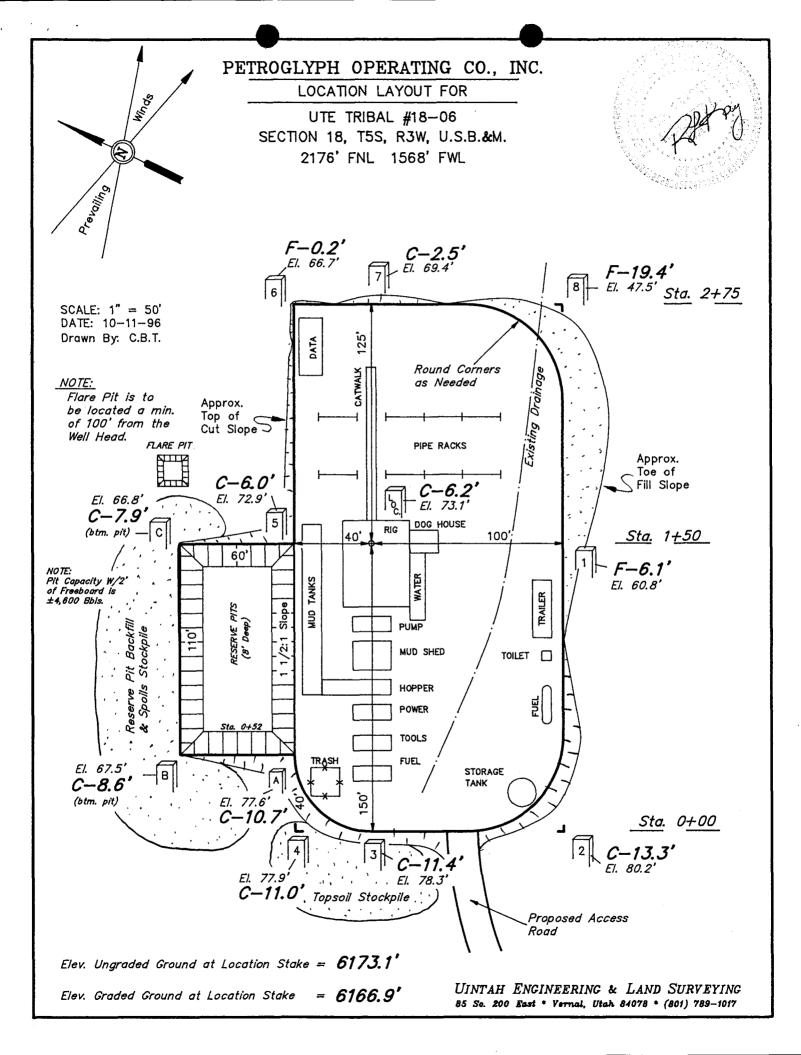
A copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

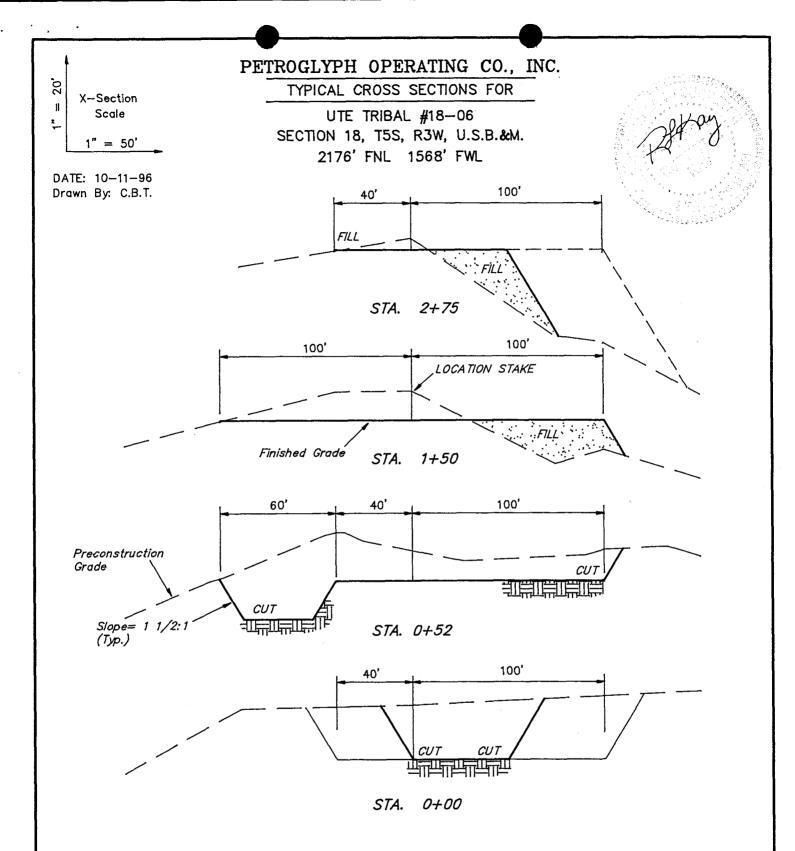
The BIA Office shall be notified upon site completion prior to moving on the drilling rig.

#### Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the Plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and sub-contractors in conformity with this Plan and the terms and conditions under which it is approved.

Date





#### APPROXIMATE YARDAGES

(12") Topsoil Stripping = 1,670 Cu. Yds.

Remaining Location = 6,830 Cu. Yds.

TOTAL CUT = 8,500 CU.YDS.

FILL = 5,810 CU.YDS.

EXCESS MATERIAL AFTER

5% COMPACTION

= 2,380 Cu. Yds.

Topsoil & Pit Backfill

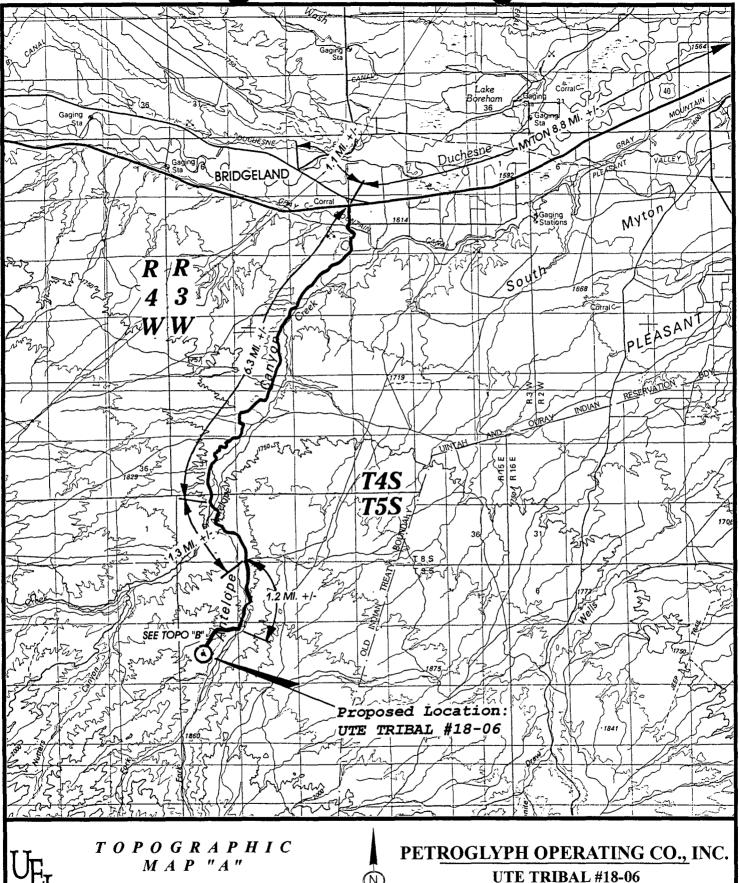
= 2,370 Cu. Yds.

(1/2 Pit Vol.)

EXCESS UNBALANCE (After Rehabilitation)

= *10* Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING 85 So. 200 East \* Vernal, Utah 84078 \* (801) 789-1017

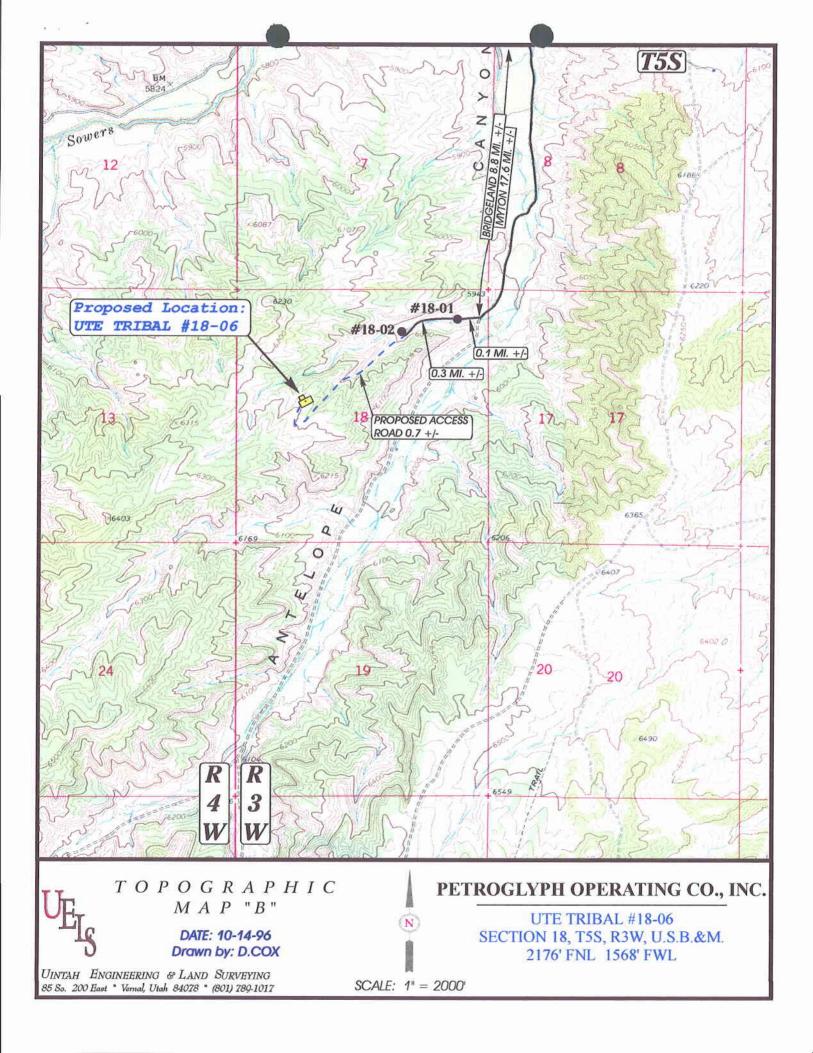


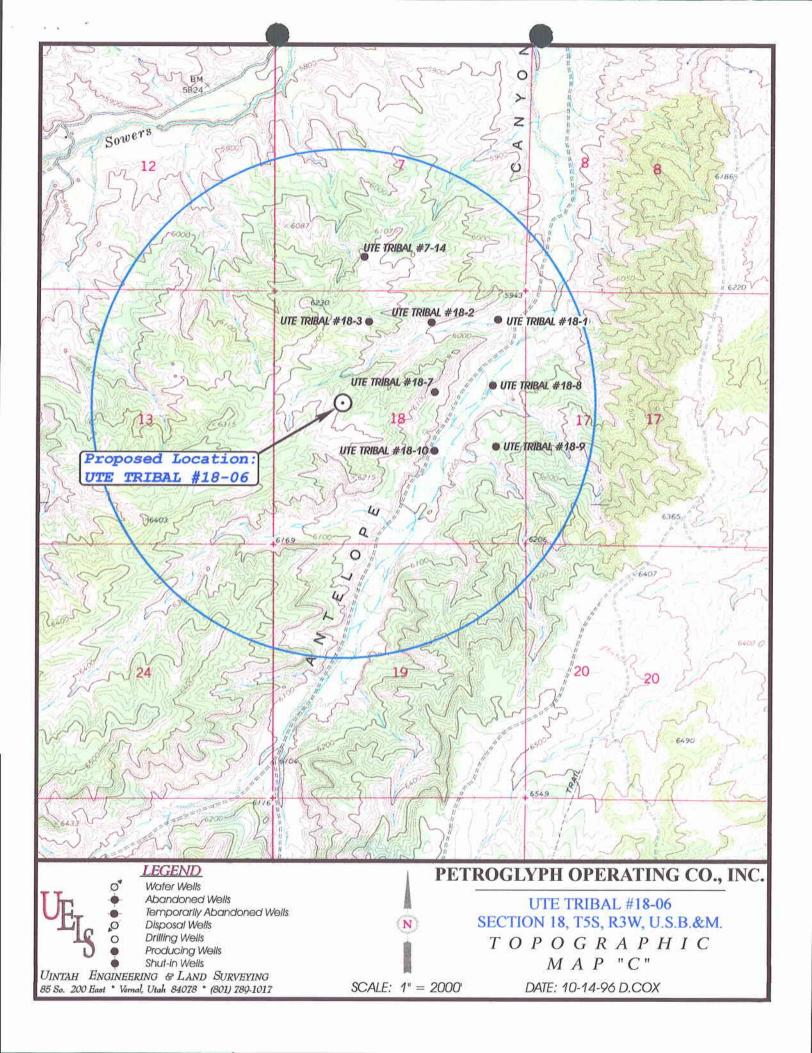
DATE: 10-15-96 Drawn by: D.COX

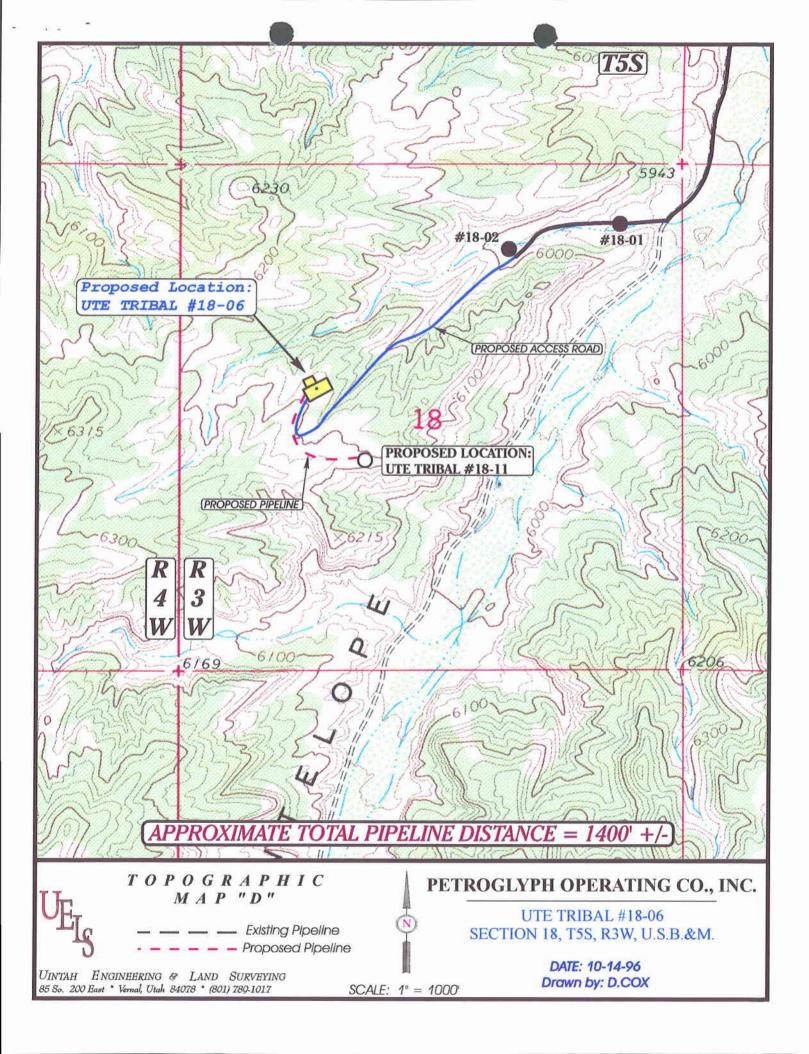
UINTAH ENGINEERING & LAND SURVEYING 85 So. 200 East \* Vernal, Utah 84078 \* (801) 789-1017



**SECTION 18, T5S, R3W, U.S.B.&M.** 2176' FNL 1568' FWL







## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 01/21/97	API NO. ASSIGNED: 43-013-31781
WELL NAME: UTE TRIBAL 18-06 OPERATOR: PETROGLYPH OPERATING (1	13800)
PROPOSED LOCATION: SENW 18 - T05S - R03W SURFACE: 2176-FNL-1568-FWL BOTTOM: 2176-FNL-1568-FWL DUCHESNE COUNTY ANTELOPE CREEK FIELD (060)  LEASE TYPE: IND LEASE NUMBER: 14-20-H62-3513  PROPOSED PRODUCING FORMATION: GRRV	INSPECT LOCATION BY: / / TECH REVIEW Initials Date Engineering Geology Surface
RECEIVED AND/OR REVIEWED:  V Plat Nond: Federal [N State[] Fee[] (Number 30 4556 ) Potash (Y/N) Noil shale (Y/N) Water permit (Number 43-10152 ) RDCC Review (Y/N) (Date:)	LOCATION AND SITING:  R649-2-3. Unit: R649-3-2. General.  R649-3-3. Exception.  Drilling Unit Board Cause no: Date:
COMMENTS: EXCESSION VOCA	Naprieva 1/31/1/
STIPULATIONS:	

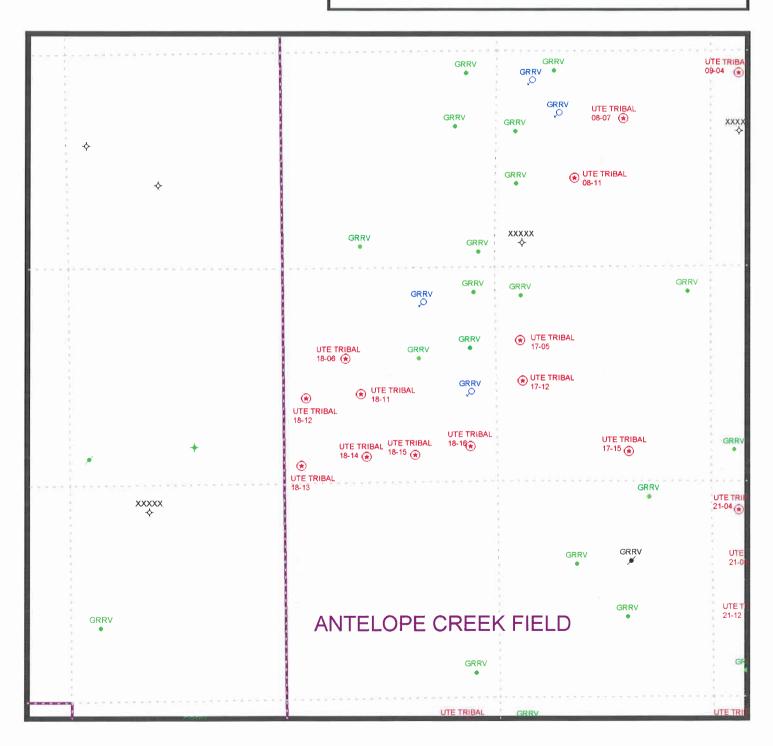
**OPERATOR: PETROGLYPH** 

FIELD: ANTELOPE CREEK (060)

**SEC. TWP. RNG: 18, T5S R3W** 

**COUNTY: DUCHESNE** 

UAC: R649-3-2 & R649-3-3



PREPARED:

**DATE: 22-JAN-97** 

# DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt Governor Ted Stewart Executive Director

1594 West North Temple, Suite 1210 Box 145801 Salt Lake City, Utah 84114-5801 801-538-5340 James W. Carter | 801-359-3940 (Fax) Division Director | 801-538-7223 (TDD)

February 4, 1997

Petroglyph Operating Company, Inc. P.O. Box 607 Roosevelt, Utah 84066

Ute Tribal 18-06 Well, 2176' FNL, 1568' FWL, SE NW, Sec. 18, Re: T. 5 S., R. 3 W., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. API identification number assigned to this well is 43-013-31781.

Sincerely,

Associate Director

lwp

Enclosures

Duchesne County Assessor

Bureau of Land Management, Vernal District Office

Operator:		Petro	oglyph	<u>Operat</u>	ing (	<u>Comp</u>	oany,	<u>Inc</u>	•
Well Name & Nu	umber: _	Ute Tribal 18-06							
API Number: _		43-01	3-3178	1					
Lease:		14-20	-H62-3	513					
Location:	SE NW	Sec.	1.8	Т.	5 :	S.	R.	٦,	w.

#### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact R. J. Firth (801)538-5274 or Mike Hebertson at (801) 538-5333.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

## UNITED STATES

SUBMIT IN T CATE\* (Other instruction reverse side)

FORM APPROVED

OMB NO. 1004-0136 Expires: February 28, 1995

DEPARTMENT OF THE INTERIOR						5. LEASE DESIGNATION AND SERIAL NO.	
BUREAU OF LAND MANAGEMENT						14-20-H62-3513	
ΔΡΡΙ	ICATION FOR P	6. IF INDIAN, ALLOTTEE OR TRIBE NAME					
1a. TYPE OF WORK	IOATION TOTAL					UTE INDIAN TRIBE	
DR	ILL X	DEEPEN				7. UNIT AGREEMENT NAME	
b. TYPE OF WELL	AS []		s	INGLE MULTIF	PLE [	8. FARM OR LEASE NAME, WELL NO.	
	VELL OTHER		z	ONE ZONE			
	ODDDAMING GO	4D 3 NIX T NI	~			9. API WELL NO.	
PETROGLYPH  3. ADDRESS AND TELEPHONE NO.	OPERATING COL	#18-06					
P O BOY 60	7, ROOSEVELT	10. FIELD AND POOL, OR WILDCAT					
4. LOCATION OF WELL (F	Report location clearly and	ANTELOPE CREEK					
At surface	FNL & 1568'	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA					
At proposed prod. zo:		TWE CEAT					
						Sec. 18, T5S, R3W	
	AND DIRECTION FROM NEA			e*		12. COUNTY OR PARISH 13. STATE	
	SOUTHWEST OF	MYTON, U		OR LAND IN TRICE	1 17 10	DUCHESNE UTAH DE ACRES ASSIGNED	
15. DISTANCE FROM PROP LOCATION TO NEARES	Tr .		то			HIS WELL	
PROPERTY OR LEASE (Also to nearest dri			·	40 ROPOSED DEPTH	20 pom4	40 ROTARY OR CABLE TOOLS	
18. DISTANCE FROM PROI TO NEAREST WELL, I	RILLING, COMPLETED,		i	011.9'		ARY	
OR APPLIED FOR, ON THE 21. ELEVATIONS (Show wh			1 0	011.9	1 KOI	22. APPROX. DATE WORK WILL START*	
6166.9'GRAD						JANUARY, 1997	
23.	DD GROOM	PROPOSED CASI	NG AN	CEMENTING PROGRA	м		
		1	_	SETTING DEPTH	<del></del>	QUANTITY OF CEMENT	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	001		125 0		
12 1/4 7 7/8	8 5/8 5 1/2	24.0# 15.5#		250' 6011.9'		x class "G" + 2% CaCl <sub>2</sub> #/sx celloflake.	
		V 2001. 0			OF IN LIGHT LCM T OR FR	TO 400' ABOVE ALL ZONE: ITEREST (+ 10% EXCESS). CEMENT (11 PPG + ) + CO 200' ABOVE OIL SHALE ESH WATER INTERVALS (+ CCESS).	
					C T C NI N M	IED.	
	PERATING COMP THE SUBJECT I					BECEIVED	
Bureau	vision of Oil of Indian Af	fairs, For	rt D		h	JAN 1 6 1997	
	be, Fort Duc					d annu anadustina none 16 annunci in ta deill co	
N ABOVE SPACE DESCRIE beepen directionally, give pert	R PROPOSED PROGRAM: If inept data on subsurface location	f proposal is to deepen, ons and measured and t	give data rue vertic	a on present productive zone al depths. Give blowout preve	and proposed inter program,	I new productive zone. If proposal is to drill or if any.	
SIGNED ZAL	wth	TI1	ri.e AG	ENT FOR PETR	OGLYPH	DATE 1-14-97	
(This space for Fede	NOTICE OF	APPROVA	L_	APPROVAL DATE	3	C SPERATON'S GONY	
	- 2	oplicant holds legal or ea		tle to those rights in the subject assistant Field Mana Mineral Resources	ger	rould entitle the applicant to conduct operations thereon.  FEB 0 4 1897	
سيرير المراس	7.77/2/// // // / / / / / / / / / / / / /	111111111		William Lagorica	J	t Lid V T NOI!	

\*See Instructions On Reverse Side



DATE: January 29, 1997

REPLY TO ATTN OF:

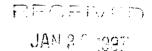
Superintendent, Uintah & Ouray Agency, Ft. Duchesne, UT

SUBJECT:

Concurrance for Application for Permit to Drill and Corridor ROW's

To: Bureau of Land Management, Vernal District Office

Attn.: Minerals Division



We recommend approval of the Application for Permit to drill on the subject wells.

#### TOWNSHIP 5 SOUTH, RANGE 3 WEST, USB&M

Sec. 18	UT 18-06	SE/4NW/4, See Below
	UT 18-11	NE/4SW/4, See Below
	UT 18-12	NW/4SW/4. See Below
Sec. 29	UT 29-12	NWSW, and Sec. 30, N1/2SE. See Below
	UT 29-05	SW1/2NW, See Below

Each of the above well pads with an access corridor shall contain the following:

1. 3" steel buried oil pipeline	4. 4 1/2" surface production pipeline
2. 3" poly buried water pipeline	5. 6" steel buried water pipeline
3. 3" poly buried gas pipeline	6. Electrical power line

Based on available information received on <u>December 10. 1996</u>, the proposed locations have been cleared of the following areas of environmental impact.

YES X	NO	Listed threatened or endangered species
YES X	NO	Critical wildlife habitat
YES X	NO	Archaeological or cultural resources
		Air quality aspects (to be used only if project is in or adjacent to a
YES	NO	Class I area of attainment
YES	NO	Other (if necessary)

COMMENTS: The Ute Tribe Energy & Minerals is recommending the following criteria to be adhered during all phases of construction activities.

1. The Ute Tribe Energy and Minerals Department is to be notified 48 hours prior to construction, as a Tribal Technician is to monitor construction.

## SITE SPECIFIC ENVIRONMENTAL ANALYSIS

#### 1.0 PROPOSED ACTION

Petroglyph Operating Co., Inc. is proposing to drill oil well #18-06, and construct pipelines, access roads, and powerlines in approximately 5096 feet of corridor right-of-way.

#### 2.0 ALTERNATIVE ACTIONS

- A. ALTERNATIVE CONSIDERED: The proposed action is the preferred alternative.
- B. NO ACTION: Under the no action alternative the proposed action would not be implemented.
- C. OTHER: NA

#### 3.0 PERMITTEE/LOCATION

- A. Permittee- Petroglyph Operating Co., Inc.
- B. Date 12-1-96
- C. Well number- 18-06
- D. Right-of-way- Corridor R\W approx. 5096 feet.
- E. Site location- S1/2NW1/4, N1/2SW1/4, W1/2NE1/4, Section
- 18, T5S, R3W, USB&M.

#### 4.0 SITE SPECIFIC SURVEY

#### A. SITE DESCRIPTION

- 1. Elevation (feet) 6173
- 2. Annual precipitation (inches) 8-12
- 3. Topography- rolling hills
- 4. Soil- The soil texture is (0 to 6") gravely shale loam with moderate permeability.

#### B. VEGETATION

- 1. Habitat type is upland shrub & pinion/juniper.
- 2. Percent Ground Cover- estimated to be 40%.
- 3. Vegetation consists of approximately 18% grasses, 46% shrubs, 8% forbs & 10% trees. The main variety of grasses are squirrel tail, Indian ricegrass, poa, needle & thread, bluebunch wheat, galleta, and blue grama. Forbs are astragalus, mustard, lambs quarter, globemallow, buck wheat, & annuals. Shrubs consist of black sagebrush, prickly pear, shadscale. Trees are pinion pine and Utah Juniper.

- 4. Observed Threatened & Endangered species: None.
- 5. Potential For Threatened & Endangered species: Slight
- 7. Observed Noxious Weeds: None

#### 8. AFFECTED ENVIRONMENTAL

1. There are no surface damages as a result of the initial survey.

#### 4.1 WILDLIFE

#### A. POTENTIAL SITE UTILIZATION

- 1. Big Game-The area is used throughout the year by mule deer, elk, and antelope.
- 2. Small Game-The area is used by cottontail rabbit.
- 3. Raptor- Various species of raptors use this area for habitat. Raptors which are observed using the area are Golden eagles, Redtail hawk, & Kestrel. Ferruginous hawk hunt in the area and there is an active nest located approximately 2.0 miles south east of this site in Section 20, T5S, R3W, USB&M.
- 5. Non-Game Wildlife- Animal species which have been observed using this area are black tail jack rabbit, coyote, fox, badger, and various species of reptiles, and song birds.
- 6. Threatened & Endangered Species: No T&E species are reported using the area of this project.

#### 4.2 PRESENT SITE USE

#### A. USAGE

	<u>acres</u>
Rangeland	2.86
Irrigable land	0
Woodland	0
Non-Irrigable land	2.86
Commercial timber	0
Floodplain	0
Wetland	0
Riparian	0
Other:	0

#### 4.3 CULTURAL RESOURCES

#### A. CULTURAL SURVEY

Cultural Resource Surveys were performed by James A.

Truesdale, an Independent Archaeologist.

#### 5.0 ENVIRONMENTAL IMPACTS

#### A. SURFACE ALTERATIONS

		<u>acres</u>
1.	Access road	0.00
2.	Well site	1.26
3.	Pipeline right-of-way	0.00
4.	Corridor right-of-way	1.60
5.	Total area disturbed	2.86

#### B. VEGETATION/LANDSCAPE

- 1. Production loss (AUM's)/year: 0.18
- 2. Permanent scar on landscape: Yes x No
- 3. Potential impacts to Threatened & Endangered species:
  Yes No X

#### C. SOIL/RANGE/WATERSHED

There will be an increase in soil erosion from wind and water. There will not be any possible point source of water pollution.

The area is presently used as rangeland. In recent years the area has been permitted for livestock grazing, but at the present time no permits have been issued for the area. This project will reduce livestock grazing by approximately 0.18 AUM/year.

The area is not used as irrigated cropland and a water right has not been designated for the area.

#### D. WILDLIFE/THREATENED & ENDANGERED SPECIES

There will be an insignificant reduction of wildlife habitat and grazing for livestock. There will also be an increase in wildlife disturbance and poaching resulting from the additional traffic and people using the area.

There are no known impacts to Threatened or Endangered species but is important habitat for the Ferruginous hawk. The area is important winter range for big game.

Ferruginous Hawks use this area for nesting and hunting. There is an nest in Section 20.

#### 6.0 MITIGATION STIPULATIONS

#### A. VEGETATION/LANDSCAPE

1. Before the site is abandoned the company will be

required to restore the well site and right-of-ways to near their original state. The disturbed area will be reseeded with desirable perennial vegetation.

2. Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

#### B. SOILS/RANGE/WATERSHEDS

1. Soil erosion will be mitigated by reseeding all disturbed areas.

#### 2. SURFACE PIPELINES

Surface pipelines will be constructed to lay on the soil surface, and the right-of-way will not be bladed or cleared of vegetation.

Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way.

Where pipelines do not parallel roads but cross country between stations, they shall be welded in place at wellsites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.

#### 3. BURIED PIPELINES

Buried pipelines shall be buried a minimum of 3.0 feet below the soil surface. After construction of the pipeline is completed the disturbed area of the right-ofway shall be contoured to blend into the natural landscape, and it shall be reseeded with desirable vegetation.

Where pipelines are buried adjacent to access roads the first pipeline shall be buried within 1.5 feet from the outside edge of the barrow ditch of the road. If additional pipelines are needed they shall be constructed to parallel the outer side of the first pipeline, and they shall be constructed as close to the first pipeline as safety requirements allow.

#### 4. CORRIDOR RIGHT-OF-WAY

To reduce surface damages a 50 foot wide corridor rightof-way will be used for the access road, surface pipelines, buried pipelines, and electrical powerlines.

The constructed travel width of the access road shall be limited to 22 feet, except it may be wider where sharp curves, or intersections are required.

Surface pipelines shall be constructed on one side of the access roads and buried pipelines shall be constructed on the opposite side. The width of the right-of-way used for surface pipelines shall be limited to 13 feet, and buried pipelines shall be limited to 15 feet.

- 5. An open drilling system will be used. Reserve pits will be lined with impervious synthetic liners. Prior to backfilling the reserve pit all fluids will be pumped from the pit into trucks and hauled to approved disposal sites. When the reserve pits are backfilled the surplus oil and mud, etc will be buried a minimum of 3.0 feet below the surface of the soil.
- 6. A closed production system will be used. Production fluids will be contained in leak proof tanks. All reduction fluids will be disposed of at approved disposal sites. The indiscriminate dumping of production fluids on roads, wellsites or other areas will not be allowed.
- 5. Although there is a 30 foot right-of-way the bladed area of the access road will be limited to 22 feet in all areas except where deep cuts and fills are required, sharp turns are required, or at the intersections with other roads.
- 6. Move the reserve pit backfill & spoils stockpile from the north side of the pit to the west side of the pit, and move the topsoil stockpile from stake #4 to stake #3 as agreed to at the onsite inspection.

#### C. WILDLIFE/VEGETATION/THREATENED & ENDANGERED SPECIES

Because the wellsite is located more than 1/2 mile from a Ferruginous hawk nest this wellsite may be constructed and drilled at any time throughout the year.

#### D. CULTURAL RESOURCES

Cultural resource surveys were performed by James A. Truesdale. The consultant recommends clearance of the project as it is presently staked.

#### E. UTE TRIBAL REGULATIONS

(1). Prior to commencing surveys or construction on the U&O Indian Reservation the operator, and any of its subcontractors, shall acquire access permits and business

permits from the Ute Indian Tribe.

(2). Prior to the commencement of construction, the operator shall notify the Ute Tribal Department of Energy and Minerals of the date construction shall begin.

#### 7.0 UNAVOIDABLE ADVERSE IMPACTS

#### A. SURFACE ALTERATIONS

None of the adverse impacts listed in 5.0 above can be avoided in a practical manner except those which are mitigated in item 6.0 above and those specified in BLM's 13 point surface use plan.

- B. RELATIONSHIP BETWEEN SHORT-TERM USE OF THE ENVIRONMENT VS LONG TERM PRODUCTIVITY.
  - 1. Short Term: (Estimated 20 years) A total loss of production on the land and the associated environmental impacts will continue to influence the surrounding area for the productive life of the well.
  - 2. Long Term: Standard policies provide for rehabilitation of wellsite and rights-of-ways. After the land is rehabilitated, it is not expected to return to its original productive capability. Normally, there will be a permanent scar left on the landscape.

#### C. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT

Oil and Gas are non-renewable resources, once they have been removed they can never be replaced.

#### 8.0 CUMULATIVE IMPACTS

#### A. FULL DEVELOPMENT

Each additional well drilled for development increases the soil erosion potential, reduces wildlife habitat and grazing, increases potential soil and geologic pollution resulting from salt loading, reduces the soil's potential to recover, and increases the potential of water pollution from produced waters and hydro-carbons. Therefore, strict conformance with the mitigation measures and recommendations in this document is emphasized to minimize the adverse environmental impacts.

#### 9.0 NEPA COMPLIANCE

#### A. RESEARCH/DOCUMENTATION

Based on available information, <u>12-8-96</u>, the proposed location in the following areas of environmental impacts has been cleared:

<u> </u>	Yes		Listed Threatened & Endangered
<u>x</u>	Yes		species Critical wildlife habitat
	Yes	No	Historical and cultural resources

#### 10.0 REMARKS

#### A. SURFACE PROTECTION/REHABILITATION

All essential surface protection and rehabilitation requirements are specified above.

#### 11.0 RECOMMENDATIONS

#### A. APPROVAL/DISAPPROVAL

We recommend approval of the proposed action as outlined in item 1.0 above.

12-10-96
Date

Representative - BIA Land
Operations, Uintah and Ouray

Agency

#### 12.0 DECLARATION

#### A. APPROVAL

It has been determined that the proposed action is not a federal action significantly affecting the quality of the environment as it would require the preparation of an environmental impact statement in accordance with Section 102 (2) (c) of the National Environmental Policy Act of 1969 (42 USC 4331) (2) (C).

/2/10/96 Date

superintendent,

Uintah and Ouray Agency

#### 14.0 CONSULTATION

#### A. REPRESENTATIVES/ORGANIZATION

Dale Thomas- BIA Ed Trotter-Petroglyphs Lonnie Nephi-UTEM Greg Darlington-BLM

B:\EAPetro.806

COAs Page 1 of 9 Well No.: Ute Tribal 18-06

# CONDITIONS OF APPROVAL APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Company Inc.						
Well Name & Number: Ute Tribal 18-06						
API Number:43-013-31781						
Lease Number:14-20-H62-3513						
Location: SENW Sec. 18 T.5S B.3W						

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

COAs Page 2 of 9 Well No.: Ute Tribal 18-06

#### CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

#### A. DRILLING PROGRAM

## 1. <u>Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are</u> Expected to be Encountered

Report <u>ALL</u> water shows and water-bearing sands to Tim Ingwell of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#### 2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a <a href="Mailto:2M">2M</a> system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

#### 3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the shallowest potential productive zone. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

COAs Page 3 of <u>9</u> Well No.: Ute Tribal 18-06

#### 4. <u>Mud Program and Circulating Medium</u>

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aguifers.

#### 5 .Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to the top of the cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

#### 6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

COAs Page 4 of 9 Well No.: Ute Tribal 18-06

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

COAs Page 5 of 9 Well No.: Ute Tribal 18-06

#### 7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries and tested for meter accuracy at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

COAs Page 6 of 9 Well No.: Ute Tribal 18-06

In the event after-hours approvals are necessary, please contact one of the following individuals:

Ed Forsman (801) 789-7077 Petroleum Engineer

M D D I I 700

nkert (801) 789-4170

Wayne P. Bankert Petroleum Engineer

Jerry Kencka (801) 781-1190

Petroleum Engineer

BLM FAX Machine (801) 781-4410

#### EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spend solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

COAs Page 8 of 9 Well No.: Ute Tribal 18-06

#### SURFACE CONDITIONS OF APPROVAL

The Surface Use Conditions of Approval all come from the BIA Concurrence letter and Environmental Analysis Mitigation Stipulations.

The Ute Tribe Energy and Mineral Department is to be notified 48 hours prior to construction. A Tribal Technician is to monitor construction.

A 50 foot corridor rights-of-way shall be granted with the following: Access roads shall be limited to 22 feet, except as granted for sharp turns. Surface pipelines shall be limited to 13 feet. Buried pipelines shall be buried a minimum of 3 feet below the soil surface within an area of disturbance limited to 15 feet wide, and construction will be monitored by a Tribal Technician.

Pipelines buried adjacent to access roads shall be buried within 1.5 feet from the outside edge of the barrow ditch. Additional pipelines shall be parallel to each other, and placed as safety requirements will allow.

Petroglyph will assure the Ute Tribe that any/all contractors and subcontractors have acquired a Tribal Business License and have access permits prior to construction.

All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined, as referenced in report, and to the existing roadways and/or evaluated access routes.

All personnel should refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

The Ute Tribe Energy & Mineral Department shall be consulted if cultural remains from subsurface deposits are exposed or identified during construction.

Mitigation Stipulations from the site specific Environmental Analysis:

Before the site is abandoned, the company will be required to restore the well site and right-of-ways to near their original state. The disturbed areas will be reseeded with desirable perennial vegetation.

Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

The pipeline will be constructed to lay on the soil surface, and the right-of-way for the pipeline will not be bladed or cleared of vegetation. Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way.

COAs Page 9 of 9 Well No.: Ute Tribal 18-06

Where pipelines cross country between stations, they shall be welded in place at wellsites or on roads and then pulled into place with suitable equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.

A buried line is not mentioned in the APD, but the burying and related reseeding instructions are described in the Environmental Analysis for what may be the eventual installation of a water injection line. Reseeding in the areas where there is soil disturbance from buried pipelines shall occur between September 15 and November 15 of the same year following construction of the buried line.

An open drilling system will be used. Reserve pits will be lined with impervious synthetic liners. Prior to backfilling the reserve pit all fluids will be pumped from the pit into trucks and hauled to approved disposal sites. When the reserve pits are backfilled the cuttings and mud, etc. left in them to be buried will be buried a minimum of three feet below the surface of the soil.

A closed production system will be used. Production fluids will be contained in leak proof tanks. All production fluids will be disposed of at approved disposal sites. The indiscriminate dumping of production fluids on roads, wellsites or other areas will not be allowed.

Move the reserve pit backfill and spoils stockpile from the North side of the reserve pit to the West side and move the topsoil pile to near stake 3 to keep it separate from the pit backfill stockpile.

# DIVISION OF OIL, GAS AND MINING

#### SPUDDING INFORMATION

Name of Company: PETROGLYPH OPERATING.
Well Name: <u>UTE TRIBAL 18-06</u>
Api No. <u>43-013-31781</u>
Section: 18 Township: 5S Range: 3W County: DUCHESN
Drilling Contractor <u>UNION</u>
Rig # <u>16</u>
SPUDDED:
Date 4/3/97
Time
How_ROTARY
Drilling will commence
Reported by
Telephone #
Date:

Form 3160-4 (November 1983) (formerly 9-330)



#### SUBMIT IN DUPLICATE

Form approved.

other instructions on	Budget Bureau No. 1004
erse side)	(Expires August 31, 198

**UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	5. LEASE DESIGNATION AND SERIAL NO. 14-20-H62-3513							
	WELL O	COMPLETION OF	RECOMPLETION	N REPORT AND LOG*	-		6. IF INDIAN, ALOTTEE Ute Indi	OR TRIBE NAME an Tribe
1.a. TYPE OF WELL		Oil Wel			r		7. UNIT AGREEMENT NAME 14-20-H62-4650	
b. TYPE OF COMP		Deeper	Plug Back	Diff. Reserv. Other	,		8. FARM OR LEASE NA. Ute 7	ME
· · · · · · · · · · · · · · · · · · ·		Deeper	Flug Back				9. WELL NO.	
<ol><li>NAME OF OPERA Petrogly</li></ol>	nok ph Operating Cor	npany, Inc.					18-	
3. ADDRESS OF OP	ERATOR 39. Hutchinson, k	(S 67501-1830					10. FIELD AND POOL, C	
4. LOCATION OF W. At surface	ELL (Report location	n clearly and in accor & 1568' FWL SV	V NW	e requirements)*			II. SEC., T., R., M., OR B SURVEY OR AREA Sec.18, T	LOCK AND
At top prod. interval reported below  At total depth 6011' RTD  14. PERMIT NO. DATE ISSUED 43-013-31781								13. State Utah
15. DATE SPUDDED	/97	16. DATE T.D. REAC	HED /12/97	17. DATE COMPLETED (Re 5/13/97	ady to prod.)	18. ELEVATIONS	DF, RKB, RT, GR, ETC.)* 6167'	19. ELEV. CASINGHEAD
20. TOTAL DEPTH, ME 601	& TVD	21. PLUG BACK T.D.		22. IF MULTIPLE COMPL HOV	W MANY*	23. INTERVALS DRILLLED BY	ROTARY TOOLS	CABLE TOOLS
24. PRODUCING INTE Green River	RVAL(S) OF THIS CO	OMPLETION TOP, B	OTTOM, NAME (MD	AND TVD)*			25 WAS DIRECTIONAL	SURVEY MADE
26. TYPE ELECTRIC A	ND OTHER LOGS RI	JN					27. WAS WELL CORED	
28.			CA	SING RECORD (Report all stri	ngs set in we	ll)		
CASING SIZE	WEIGHT, LB/FT.	DEPTH SET (MD)	HOLE SIZE		IG RECORL	)	AMOUNT	PULLED
8-5/8" 5-1/2"	24# 15.5#	413' 6006'		25 sx Type 5 + 2% CaC 5 sx HiFill + 320 sx Thix				
	10.0%							
			<u> </u>			120	TUBING	PECOPD
29.	TOP	BOTTOM (MD)	INER RECORD SACKS CEMENT*	SCREEN (MD)		30. SIZE	DEPTH SET (MD)	PACKER SET (MD)
SIZE	TOP	BOTTOM (MD)	SACKS CEMENT	SCREET (MD)		2-7/8"	5750.5'	
							<u></u>	
31. PERFORATION RE		nd number)	DI BULA	32.	ACI		E, CEMENT SQUEEZE, ET	
5640 - 5644 (16 sh 4868 - 4872 (16 sh				DEPTH INTERVAL (MD) 5640 - 5644	8253 gal	fluid, 29,600# pr	ND KIND OF MATERIAL	USED
4738 - 4744 (24 sh			Bilbioth 75 M School and Austria	4868 - 4872		fluid, 11,500# pr		
4312 - 4345 (44 sh	•	1 3		4738 - 4744				
( )				4312 - 4345 7953 gal fluid, 42,500# p		ropant		
	T. A.							
33.*				PRODUCTION				
DATE FIRST PRODUCT 6/15/				umping - size and type of pump) 1 3/4" x 16' RHAC			WELL STATUS ( <i>Producin</i> , produ	cing
DATE OF TEST 6/21/97	HOURS TESTED 24	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL. 115	GAS - MCI	<sup>7.</sup> 0	WATER - BBL. 74	GAS-OIL RATIO
FLOW. TUBING PRESS	CASING PRESSUI	RE CALCULATED  24 HR. RATE	OIL - BBL.	GAS - MCF.	WATER - I	BBL.	OIL GRAVITY - API (COI	RR.)
34. DISPOSITION OF C	AS (Sold, used for fuel	, vented, etc.)				TEST WITNESSED	BY Dave Schreiner	
35. LIST OF ATTACHN	IENTS							
$\triangle$	ne foregoing and attach	ned information is comp		mined from all available records		a Taskulalaa	**	e 6/26/97
Signed ()	Jul 71-	toward T	Title	Geology/Petroleum E			Dat	0/20/9/
		`	structions and S	paces for Additional D	ata on Re	verse Side)		The second second

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38.

**GEOLOGIC MARKERS** 

FORMATION	ТОР	воттом		DESCRIPT	ION, CONTENTS, ETC.				<u> </u>
X Marker	4398	BOTTOM	<u>, , , , , , , , , , , , , , , , , , , </u>	DESCRII I	ION, CONTENTS, ETC.		NAME	MEAS. DEPTH	OP TRUE VERT. DEPTH
Douglas Creek	4540								
B Limestone	4920								· .
Castle Peak	5494								
Basal Carbonate	5901				S				
					SAK-DOMANIE	*.			
ļ	e e								
			-						
		The state of the s							
		and the second				•	,		
		2							

Prenation Petroglyph Operating Company, Inc. P.O. Box 1839	OPERATOR ACCT. NO N3800
ADDRESS P.O. Box 1839	,
Hutchinson, KS 67504-1839	

ACTION CODE	CURRENT	NEW ENTITY NO.	API NUMBER	WELL NAME		OO SC TP RG COUNTY			SPUD	EFFECTIVE	
	EIIIII 110.	CHITIT NO.			90	SC	TP	RG	COUNTY	DATE	DATE
A	99999	09387	43-013-31781	Ute Tribal 18-06	SENW	18	58	3W	Duchesne	4-4-97	
WELL 1 C	ormens:	The	Ute Tribal 18	3-06 will tie into the UT	18-02 tan	k batt	ery	E, Hily	added 7.	2-97. Le	
WELL 2 C	CHARENT S:	J					·	·		1	1
WELL 3 CI	DEPRESTS:					Γ	1	ı	Г		
WELL 4 CO	hat (DrT C						<u> </u>				
IILLE 4 CC											
HELL 5 CO			on back of form)			1	1				

A - Establish new entity for new well (single well only)

B - Add new well to existing entity (group or unit well)

C - Re-assign well from one existing entity to another existing entity

D - Re-assign well from one existing entity to a new entity

E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

Signature Dearma Bell

Operations Coordinator 4-9-97

Date

Phone No. (801 ) 722-2531

STATE OF UTAH DIVISION OF OIL, GAS AND MININ	G

		REPORT O	WATER ENCOUNTERED DU	JRING DRILLING	
1. Well nan	me and number:	Ute.	Tribal 18-06		
API num	ber: <u>43-</u>	0/3-3/7	28/		
			8 Township 55 Range 3W	County Ducheshe	
	erator: <i>Petro</i>				<del></del>
Address			39		
				Phone: 801-722-25	3/
4 Dallian a	1101E	nion Dail	KS 67504-1839 Uing #16	rilotte.	
	_		ing 16		
Address:	•	<u>ver 40</u>		Dalleton Dalle	·
	BUCK	hannon	WV 26201	Phone: 304-472-46/0	
5. Water en	ncountered (atta	ch additional p	ages as needed):		
	DE	PTH	VOLUME	QUALITY	
	FROM	то	(FLOW RATE OR HEAD)	(FRESH OR SALTY)	
	205	428	NO sample (DAM)		*
	428	929	DRY 1/8'x7"		
	2780	2780	18 x 1 + 1" x 2"	FRESH	
	2/80		// //	Froh	•
	Slow 7	54 c	1188 1/8×1/4X7"	FRESH	
	_		,		
6. Formation	n tops:				
	-				
	-				
	_				
-			encountered, please attach a copy of	· / /	
-	· À		complete to the best of my knowleds	ge. Date: 4/8/97  Title: Operation Conduction	<u></u>
lame & Sigi	nature: 🔟 🎉	mo bel	<u> </u>	Title: <u>Uperations (Deraua</u> )	100

July 2, 1997

Vicky Dyson State of Utah Division of Oil, Gas & Mining 1594 W. North Temple, Ste.1210 Salt Lake City, UT 84114

Ms. Dyson:

Enclosed please find the logs listed below for the wells located in Duchesne County, Utah.

Well Name	<u>Loq</u>				
Ute Tribal 18-06	<b>CNL &amp; AIT</b>	48 613 81787	0,525	Osite)	123
Ute Tribal 18-12	CNL & AIT				
Ute Tribal 18-13	CNL & AIT				

Please hold these in confidence as permitted in division guidelines. If you need further information, please do not hesitate to call me at 316-665-8500.

Sincerely,

**April Menzies** 

Petroleum Engineering/Geology Technician

april Monzies

# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL. GAS AND MINING

FORM 9

	DIVISION OF OIL, GAS	AND MINING	5 LEASE DESIGNATION
			5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H624650
SUNDR	Y NOTICES AND RE	PORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill			Ute Indian Tribe 7. UNIT OF CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL	V	Toposals.	Ute Tribal 18-01
2. NAME OF OPERATOR:	GAS WELL	OTHER	8. WELL NAME and NUMBER:
	h Onemalia		See Below  9. API NUMBER:
3. ADDRESS OF OPERATOR:	h Operating Co		See Below
P.O Box 607 cr	ry Roosevelt STATE	UT ZIP 84066 722-2531	10. FIELD AND POOL, OR WILDCAT:
in addition of Well			Antelope Creek
QTR/QTR, SECTION, TOWNSHIP, RAI			COUNTY: Duchesne STATE: UT UTAH
11. CHECK APP	ROPRIATE BOXES TO II	NDICATE NATURE OF NOTICE, RE	DODT OF CO.
TYPE OF SUBMISSION		TVPE OF ACTION	PURT, OR OTHER DATA
NOTICE OF INTENT	ACIDIZE	TYPE OF ACTION  DEEPEN	
(Submit in Duplicate)	ALTER CASING	FRACTURE TREAT	REPERFORATE CURRENT FORMATION
Approximate date work will start:	CASING REPAIR	NEW CONSTRUCTION	SIDETRACK TO REPAIR WELL
	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TEMPORARILY ABANDON
	CHANGE TUBING	PLUG AND ABANDON	TUBING REPAIR
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	PLUG BACK	VENT OR FLARE
Date of work completion:	CHANGE WELL STATUS	<del></del>	WATER DISPOSAL
Date of work completion:	COMMINGLE PRODUCING FORM	PRODUCTION (START/RESUME)	WATER SHUT-OFF
	CONVERT WELL TYPE	C The state of the confe	X OTHER: Facility
12. DESCRIBE PROPOSED OF CO		RECOMPLETE - DIFFERENT FORMATION	Changes
Well Name Al	PI# Clearly s	show all pertinent details including dates, depths, vol	
	· ·	S/T/R Type S	tatus Entity#
		17/05S/03W 0i1 PO	OW 12088
			OW 12088
		0 /0 5 0 /0 0	OW 12088
		0 /050 /0000 -1-	OW 09387
	)1001/0300D1	.07033703W OII P(	OW 09387
All wells were i	noved to the II+	e Tribal 18-01 Tank B	Da & &
Ute 18-01			DW 12245
			12245
NAME (PLEASE PRINT) Callie	Peatross	TITLE Production	on Clerk
SIGNATURE MILL VE	ttlost	24.2	
		DATE <u>04-25-03</u>	
This space for State use only)			
			RECEIVED

APR 2 8 2003



JUL-07-2003 MON 09:40 AM OIL, GAS & MINING

FAX NO. 801 359 3940

P. 02/03

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING FORM 6

ENTITY	ACTIO	N FORM
--------	-------	--------

zip 84066

Operator:

Operator Account Number: N 3800

Address:

Phone Number: <u>435-722-2531</u>

API Number	Well	Name	QQ	Sec	Twp	Rng	County
301331781 6051	DieTribal	18-06	SWNW	18	53	3W	Duchesne
Action Code	Current Entity Number	New Entity Number	s	pud Da	te		tity Assignment Effective Date
C	M387	12245	4/	5/149:	7	Marc	ch-2003
Comments:				•			4/9/03

Now on 18-01 Tanh Battery

Mali 2

API Number	Well	Name	ୟସ	Sec	TWP	Rng	County
43013317830051	UteTribal	18-12	NWSW	18	<i>5</i> 5	3W	Duchesne
Action Code	Current Entity Number	New Entity Number	s	pud Da	te	EM	ity Assignment Effective Date
C	09387	12245	41	7/1997	7	mar	ch-2003
Comments:	w on 18-01						7/9/03 /
		J					

API Number	Vell	Name	99	Sec	Twp	Rng	County
43013321820061	Ute Tripal	19-10	NWSE	19	<i>5</i> 5	3W	Duchane
Action Code	Current Entity	New Entity Number	S	bnq pa	te		tity Assignment Effective Date
C	12353	12210	11).	8/20	00	Mar	ch-2003
Comments:	s on 19-06	•					Afalos 1

#### ACTION CODES:

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

Signature

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(3/2000)

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#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

999 18<sup>TH</sup> STREET - SUITE 300 DENVER, CO 80202-2466 Phone 800-227-8917 http://www.epa.gov/region08

RECEIVED

JAN 2 0 2006

JAM 13 2006

Ref: 8P-W-GW

DIV. OF OIL, GAS & MINING

# <u>CERTIFIED MAIL</u> RETURN RECEIPT REQUESTED

Mr. Kenneth Smith
Executive Vice President and Chief Operating Officer
Petroglyph Energy, Inc.
555 S. Cole Blvd
Boise, ID 83709

Accepted by the Utah Division of Oil, Gas and Mining

43.013.31781

RE:

Additional Well to Antelope Creek Area Permit

UIC Permit No. UT20736-00000

Well ID: UT20736-06678

Ute Tribal No. 18-06, Duchesne County, Utah

Dear Mr. Smith:

The Petroglyph Operating Company, Inc. (Petroglyph) request to convert the former Green River Formation oil well Ute Tribal No. 18-06 to an enhanced recovery injection well in the Antelope Creek Waterflood project is hereby authorized by the Environmental Protection Agency (EPA) under the terms and conditions of the Authorization For Additional Well.

The addition of the proposed injection well, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 CFR §144.33 (c) and terms of the Antelope Creek Waterflood UIC Area Permit No. UT20736-00000. Unless specifically mentioned in the enclosed Authorization For Additional Well, the Ute Tribal No. 18-03 is subject to all terms and conditions of the UIC Area Permit UT20736-00000 as modified.

Please be aware that Petroglyph does not have authorization to begin injection operations into the well until all <u>Prior to Commencing Injection</u> requirements have been submitted and evaluated by the EPA, and Petroglyph has received written authorization from the Director to begin injection.

Prior to receiving authorization to inject, the EPA requires that Petroglyph submit for review and approval the following: (1) the results of a Part I (Internal) mechanical integrity test (MIT), (2) a pore pressure calculation of the injection interval, and (3) a completed EPA Form No. 7520-12 Well Rework Record.

The initial Maximum Allowable Injection Pressure (MAIP) for the Ute Tribal No. 18-06 was determined to be 1575 psig. UIC Area Permit UT20736-00000 also provides the opportunity for the permittee to request a change in the MAIP based upon results of a step rate test that demonstrates that the formation breakdown pressure will not be exceeded.

If you have any questions, please call Ms. Patricia Pfeiffer at (303) 312-6271 or 1.800.227.8917 (Ext. 6271). Please submit the required data to <u>ATTENTION: Patricia Pfeiffer</u> at the letterhead address, citing <u>MAIL CODE: 8P-W-GW</u> very prominently.

Sincerely,

Lo Stephen S. Tuber

Du 1d Ther

Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

encl: Authorization For Conversion of An Additional Well EPA Form No. 7520-12 (Well Rework Record)

cc: without enclosures

Maxine Natchees, Acting Chairperson Uintah & Ouray Business Committee Ute Indian Tribe P.O. Box 190 Fort Duchesne, UT 84026

Chester Mills, Superintendent BIA - Uintah & Ouray Indian Agency P.O. Box 130 Fort Duchesne, UT 84026

cc: with enclosures;

S. Elaine Willie Environmental Coordinator Ute Indian Tribe P.O. Box 460 Fort Duchesne, UT 84026 Gil Hunt Technical Services Manager Utah Division of Oil, Gas, and Mining 1594 West North Temple - Suite 1220 Salt Lake City, UT 84114-5801

Kirk Fleetwood, PE BLM - Vernal District 170 South 500 East Vernal, UT 84078 bcc w/o enclosures:

Barbara Conklin, 8TAP Nathan Wiser, 8 ENF-UFO



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCYIV. OF OIL, GAS & MINING

999 18<sup>TH</sup> STREET - SUITE 300 DENVER, CO 80202-2466 Phone 800-227-8917 http://www.epa.gov/reglon08

#### **AUTHORIZATION FOR ADDITIONAL WELL**

UIC Area Permit No: UT20736-00000

The Antelope Creek Waterflood Final UIC Area Permit No. UT20736-00000, effective July 12, 1994, authorizes injection for the purpose of enhanced oil recovery into multiple lenticular sand units which are distributed throughout the lower portion of the Green River Formation. On January 19, 2005, the permittee provided notice to the Director concerning the following additional enhanced recovery injection well:

Well Name:

Ute Tribal 18-06

EPA Well ID Number:

UT20736-06678

Location:

2176 ft FNL & 1568 ft FWL SW NW Sec. 18 - T5S - R3W

Duchesne County, Utah.

Pursuant to 40 CFR §144.33, Area UIC Permit No. UT20736-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the permit.

This well is subject to all provisions of UIC Area Permit No. UT20736-00000, as modified and as specified in the Well Specific Requirements detailed below. This Authorization shall expire one year after the Effective Date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: JAN 13 2006

for Stephen S. Tuber

\*Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

<sup>\*</sup> The person holding this title is referred to as the Director throughout the Permit and Authorization

#### WELL-SPECIFIC REQUIREMENTS

Well Name: <u>Ute Tribal 18-06</u> EPA Well ID Number: <u>UT20736-06678</u>

# <u>Prior to commencing injection operations, the permittee shall submit the following information and receive written Authority to Inject from the Director:</u>

- 1. a successful Part I (Internal) Mechanical Integrity test (MIT);
- 2. pore pressure calculation of the proposed injection zone; and
- 3. completed Well Rework Record EPA Form No. 7520-12 and schematic diagram.

<u>Approved Injection Zone:</u> Injection is approved between the base of the Green River A Lime Marker, at approximately 3884 ft, to the top of the Basal Carbonate, at approximately 5901 ft.

Maximum Allowable Injection Pressure (MAIP): The initial MAIP is 1575 psig, based on the following calculation:

```
MAIP = [FG - (0.433)(SG)] * D, where

FG = 0.80 \text{ psi/ft} SG = 1.002 D = 4312 \text{ ft} (top perforation de. th KB)

MAIP = 1575 \text{ psi}
```

UIC Area Permit No. UT20736-00000 also provides the opportunity for the permittee to request a change of the MAIP based upon results of a step rate test that demonstrates the formation breakdown pressure will not be exceeded.

Well Construction and Corrective Action: No Corrective Action is required Based on review of well construction and cementing records, including CBL, well construction is considered adequate to prevent fluid movement out of the injection zone and into USDWs.

Tubing 2-3/8" or similar size injection tubing is approved; the packer shall be set at and Packer: a depth no more than 100 ft above the top perforation.

<u>Corrective Action for Wells in Area of Review:</u> No Corrective Action is required. The following wells that penetrate the confining zone are within or proximate to a 1/4 mile radius around the Ute Tribal No. 18-03 were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs:

Well:	Ute Tribal No. 18-05	Location:	Sec. 18 - T5S - R3W
Well:	Ute Tribal No. 18-04E	Location:	Sec. 18 - T5S - R3W
Well:	Ute Tribal No. 18-11	Location:	Sec. 18 - T5S - R3W

<u>Demonstration of Mechanical Integrity</u>: A successful demonstration of Part I (Internal) Mechanical Integrity using a standard Casing-Tubing pressure test is required prior to injection and at least once every five years thereafter. EPA reviewed the cement bond log and determined the cement will provide an effective barrier to significant upward movement of fluids through vertical channels adjacent to the well bore pursuant to 40 CFR 146.8 (a)(2). Therefore, further demonstration of Part II (External) Mechanical Integrity is not required at this time.

<u>Demonstration of Financial Responsibility:</u> The applicant has demonstrated financial responsibility in the amount of \$15,000 via a Surety Bond that has been reviewed and approved by the EPA.

Plugging and Abandonment: The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between USDWs. Tubing, packers, and any downhole apparatus shall be removed. Class A, C, G, and H cements, with additives such as accelerators and retarders that control or enhance cement properties, may be used for plugs; however, volume extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. At a minimum, the following plugs are required:

- PLUG NO. 1: Set a cast iron bridge plug (CIBP) no more than 50 ft above the top perforation at 4312 ft with a minimum 20 ft cement plug on top of the CIBP.
- PLUG NO. 2: Set a minimum 200 ft cement plug inside of the 5-1/2" casing across the Trona Zone and the Mahogany Shale, between approximately 2668 ft to 2868 ft.
- PLUG NO. 3: Set a minimum 200 ft cement plug inside of the 5-1/2" casing and on the backside of the 5-1/2" casing across the base of the USDW, between approximately 1038 ft to 1238 ft. This plug fulfills the Utah BLM P&A requirement.
- PLUG NO. 4: Set a minimum 50 ft cement plug on the backside of the 5-1/2" casing, across the surface casing shoe at 414 ft (unless pre-existing backside cement precludes cement-squeezing this interval.)
- PLUG NO. 5: Set a cement plug inside of the 5-1/2" casing, from at least 406 ft to 456 ft.
- PLUG NO. 6: Set a cement plug on the backside of the 5-1/2" casing, from surface to a depth of at least 50 ft.
- PLUG NO. 7: Set a cement plug inside of the 5-1/2" casing from surface to a depth of at least 50 ft.

Cut off surface and 5-1/2" casing at least 4 ft below ground level and set P&A marker; submit Sundry Notices and all necessary data as required by the EPA and other regulatory agencies.

Reporting of Noncompliance:

- (a) Anticipated Noncompliance. The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (b) <u>Compliance Schedules</u>. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than thirty (30) days following each schedule date.
- (c) Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five (5) days of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause; the period of noncompliance including dates and times; if the noncompliance has not been corrected the anticipated time it is expected to continue; and steps aken or planned to prevent or reduce recurrence of the noncompliance.

#### Twenty-Four Hour Noncompliance Reporting:

The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1.800.227-8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at 303.293.1788 if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to a USDW.
- (b) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

#### Oil Spill and Chemical Release Reporting:

The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the National Response Center (NRC) 1.800.424.8802 or 202.267.2675, or through the NRC website at <a href="http://www.nrc.uscg.mil/index.htm">http://www.nrc.uscg.mil/index.htm</a>.

#### Other Noncompliance:

The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

#### Other Information:

Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two (2) weeks of the time such information became known to him.

#### WELL-SPECIFIC CONSIDERATIONS

Well Name: <u>Ute Tribal 18-06</u>
EPA Well ID Number: <u>UT20736-00000</u>

Underground Sources of Drinking Water (USDWs): USDWs in the Antelope Creek Waterflood area generally may occur within the Uinta Formation, which extends from the surface to the top of the Green River Formation at approximately 1482 ft. According to "Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92," the base of moderately saline ground water may be found at approximately 52 ft below ground surface at this well location. Based on information reported by Petroglyph, the bas of a USDW was found at 1138 ft KB in the Ute Tribal 18-06. Based on analysis of the submitted cement bond log (CBL) the top of casing cement in this well is at approximately 2462 ft (KB).

<u>Confining Zone</u>: The Confining Zone at this location is approximately 208 ft of interbedded limestone and shale between the depths of 3676 ft to 3884 ft (KB) which directly overlies the Injection Zone, based on correlation to the Antelope Creek Ute Tribal 04-03 well Type Log. Additional impermeable lacustrine shale beds above the Confining Zone provide for further protection for any overlying USDW.

<u>Injection Zone</u>: The Injection Zone at this well location is an approximately 2017 ft section of multiple lenticular sand units interbedded with shale, marlstone and limestone from the base of the Confining Zone at 3884 ft (KB) to the top of the Basal Carbonate Formation at 5901 ft (KB), based on correlation to the Antelope Creek Ute Tribal 04-03 well Type Log.

Well Construction: The CBL shows more than 34 ft of 80% or greater bond across the confining zone, approximately 3850 ft to 3884 ft.

Surface 8-5/8" casing is set at 414 ft (KB) in a 12-1/4" hole, using 225 sacks cement

casing: circulated to the surface.

Longstring 5-1/2" casing is set at 6012 ft (KB) in a 7-7/8" 6012 ft Total Depth hole with a

casing: plugged back total depth (PBTD) of 5965 ft, cemented with 405 sacks cement.

Top of Cement (TOC): 2462 ft (KB) CBL.

<u>Perforations</u>: top perforation: 4312 ft Bottom perforation: 5644 ft

Wells in Area of Review (AOR): Construction and cementing records, including cement bond logs (CBL) as available, for two wells in the 1/4 mile AOR that penetrated the confining zone were reviewed and found adequate to prevent fluid movement out of the injection zone and into USDWs.

Well: Ute Tribal No. 18-05 Casing Cement top: 2006 ft (provided)
Well: Ute Tribal No. 18-04 Casing Cement top: 1537 ft (CBL)
Well: Ute Tribal No. 18-11 Casing Cement top: 2414 ft (CBL)

# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OUR CAS AND MINING

	DEPARTMENT OF NATURAL RESOUR	CES	
1	DIVISION OF OIL, GAS AND MIN	NING	5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3513
SUNDRY	NOTICES AND REPORTS	S ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  Ute Indian Tribe
Do not to the first form	7. UNIT OF CA AGREEMENT NAME:		
drill horizontal la	ew wells, significantly deepen existing wells below cum stensis. Use APPLICATION FOR PERMIT TO DRILL for	ent pottom-note depth, reenter plugged wells, or to orm for such proposals.	14-20-H62-4650  8. WELL NAME and NUMBER:
1. TYPE OF WELL OIL WELL	GAS WELL OTHER V	VIW Conversion	Ute Tribal 18-06
2. NAME OF OPERATOR:			9. API NUMBER:
Petroglyph Operating Con  3. ADDRESS OF OPERATOR:	npany Inc.	PHONE NUMBER:	4301331781 10. FIELD AND POOL, OR WILDCAT:
P.O. Box 607	Roosevelt $\frac{1}{51-75}$ UT $\frac{1}{215}$	84066 (435) 722-2531	Antelope Creek
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2176	TNI 9 4560' ENN		COUNTY: Duchesne
FOOTAGES AT SURFACE: 2170	THE & 1300 FVVL		COUNTY: Duchesine
QTR/QTR, SECTION, TOWNSHIP, RAN	GE, MERIDIAN: SENW 18 T5S R	5W	STATE: UTAH
11. CHECK APPF	ROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
NOTICE OF INTENT	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION
(Submit in Duplicate)	ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start:	CASING REPAIR	NEW CONSTRUCTION	TEMPORARILY ABANDON
	CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR
SUBSEQUENT REPORT	CHANGE TUBING  CHANGE WELL NAME	PLUG AND ABANDON  PLUG BACK	VENT OR FLARE WATER DISPOSAL
(Submit Original Form Only)	CHANGE WELL STATUS	PRODUCTION (START/RESUME)	WATER SHUT-OFF
Date of work completion:	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE	OTHER:
	CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION	
12. DESCRIBE PROPOSED OR CO	OMPLETED OPERATIONS. Clearly show all po	ertinent details including dates, depths, volum	es, etc.
	tice that Petroglyph Operating Co		
injection well from a produ	icing well. This work is being per	formed under our area UIC perm	it number UT20736-06678. POCI
	perform this conversion on the 18		
complete, POCI will subm	it the necessary information to the	e EPA to obtain approval to being	g injection operations.
	Accepte	a by the	
	Utah Div	vision of	
	Oil, Gas a	nd Mining	
	FOR RECO	ORD ONLY	
	·		
NAME (PLEASE PRINT) Dans	Fillinaim	me Office S	upervisor
NAME (PLEASE PRINT)	400.10.00.00	2-15-1	710
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#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18<sup>TH</sup> STREET - SUITE 300
DENVER, CO 80202-2466
Phone 800-227-8917
http://www.epa.gov/region08

MAR 1 0 2006

Ref: 8P-W-GW

# CERTIFIED MAIL RETURN RECEIPT REQUESTED

Steve Wall, District Manager Petroglyph Energy, Inc. 4116 West 3000 So. Ioka Lane Roosevelt, UT 84066

43.013, 31781

55 3W 18

RE:

Additional Well to Antelope Creek Area Permit

UIC Permit No. UT20736-00000

Well ID: UT20736-06678

Ute Tribal No.18-06, Duchesne County, Utah

Dear Mr. Wall:

Thank you for submitting information pertaining to the newly constructed or converted Ute Tribal 18-06 enhanced recovery injection well to the Region 8 Ground Water Program office of the Environmental Protection Agency (EPA). The "Prior To Commencing Injection" requirements for the Ute Tribal 18-06 injection well required well owner and operator Petroglyph Energy, Inc. to submit the following information to the Director:

- 1. A successful mechanical integrity test (MIT) demonstrating Part I Internal MI,
- 2. Pore pressure calculation of the proposed injection zone, and
- 3. completed EPA Form No. 7520-12.

All required information has been submitted, and has been reviewed and approved by the EPA. Therefore, effective upon your receipt of this letter, Administrative approval hereby is granted for injection into the Ute Tribal 18-06 enhanced recovery injection well under the conditions of the Authorization for Additional Well and UIC Area Permit UT20736-00000 as modified.

MAR 1 3 2006

As of this approval, responsibility for permit compliance and enforcement is transferred to the Region 8 UIC Technical Enforcement Program office. Therefore, please direct all future notification, reporting, monitoring and compliance correspondence to the following address, referencing your well and UIC Permit number on all correspondence regarding this well.

Technical Enforcement Program - UIC U.S. EPA Region 8, Mail Code 8ENF-UFO 999 18th Street, Suite 300 Denver, Colorado 80202-2466

The Director has determined that the maximum allowable surface injection pressure (MAIP) for the Ute Tribal 18-06 is <u>1575</u> psig. Please be reminded that it is the responsibility of the owner/operator to be aware of, and to comply with, all conditions of <u>Authorization for Additional Well UT20736-06678</u> and EPA UIC Area Permit UT20736-00000 and relevant modifications as issued.

If you have any questions regarding this Authorization, please call Tricia Pfeiffer of my staff at (303) 312-6271. For questions regarding notification, testing, monitoring, reporting or other Permit requirements, the UIC Technical Enforcement Program may be reached by calling (800) 227-8917.

Sincerely,

Director

Ground Water Program

cc: Maxine Natchees, Acting Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Chester Mills, Superintendent BIA - Uintah & Ouray Indian Agency P.O. Box 130 Fort Duchesne, UT 84026

Mr. Kenneth Smith
Executive Vice President and Chief Operating Officer
Petroglyph Energy, Inc.
555 S. Cole Blvd
Boise, ID 83709

S. Elaine Willie Environmental Coordinator Ute Indian Tribe P.O. Box 460 Fort Duchesne, UT 84026

Gil Hunt Technical Services Manager Utah Division of Oil, Gas, and Mining 1594 West North Temple - Suite 1220 Salt Lake City, UT 84114-5801

Kirk Fleetwood, PE BLM - Vernal District 170 South 500 East Vernal, UT 84078

# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL CAS AND MINING

DIVISION OF OIL, GAS AND MINING	5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3513
SUNDRY NOTICES AND REPORTS ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  Ute Indian Tribe
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or	7. UNIT OF CA AGREEMENT NAME: 14-20-H62-4650
drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.  1. TYPE OF WELL OIL WELL GAS WELL OTHER WIW Conversion	8. WELL NAME and NUMBER:
2. NAME OF OPERATOR:	Ute Tribal 18-06  9. API NUMBER:
Petroglyph Operating Company Inc.	4301331781
3. ADDRESS OF OPERATOR: P.O. Box 607 Roosevelt UT 84066 (435) 722-2531	10. FIELD AND POOL, OR WILDCAT: Antelope Creek
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2176' FNL, 1568' FWL	county: Duchesne
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 18 T5S R3W	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, RE	PORT, OR OTHER DATA
TYPE OF SUBMISSION TYPE OF ACTION  ACIDIZE  DEEPEN	REPERFORATE CURRENT FORMATION
NOTICE OF INTENT (Submit in Duplicate)  ACIDIZE  ACIDIZE  FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION	TEMPORARILY ABANDON
CHANGE TO PREVIOUS PLANS OPERATOR CHANGE	TUBING REPAIR
CHANGE TUBING PLUG AND ABANDON	VENT OR FLARE
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK	WATER DISPOSAL
(Submit Original Form Only)  CHANGE WELL STATUS  PRODUCTION (START/RESUME)	WATER SHUT-OFF
Date of work completion:  COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE	OTHER:
CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMAT	ion
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, vo	olumes, etc.
First date of Injection March 14, 2006.	
Accepted by the	
Luch Division O	
Oil Gas and Mining	
FOR RECORD ONLY	
L'All Invasion and	
NAME (PLEASE PRINT) Steve Wall District Mana	ger
SIGNATURE Struc Wall DATE 3/16/2006	
SIGNATURE DATE	

RECEIVED MAR 1 7 2006

(This space for State use only)

# STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

SUNDRY NOTICES AND REPORTS ON WELLS  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to  1. TYPE OF WELL  OIL WELL  GAS WELL  OTHER  WIW Conversion  8. WELL NAME and NUMBER: Ute Tribal 18-06  9. API NUMBER: 4301331781	AME:				
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.  1. TYPE OF WELL OIL WELL ORAS WELL OTHER WIW Conversion  8. WELL NAME and NUMBER: Ute Tribal 18-06  2. NAME OF OPERATOR: Petroglyph Operating Company Inc. 4301331781					
OIL WELL GAS WELL OTHER WIW Conversion  2. NAME OF OPERATOR: Petroglyph Operating Company Inc.  OIL WELL GAS WELL OTHER WIW Conversion  Ute Tribal 18-06  9. API NUMBER: 4301331781					
Petroglyph Operating Company Inc. 4301331781					
1 caregraphic operating company inc.					
3. ADDRESS OF OPERATOR: PHONE NUMBER: 10. FIELD AND POOL, OR WILDCAT					
P.O. Box 607 Roosevelt UT 84066 (435) 722-2531 Antelope Creek					
4. LOCATION OF WELL  FOOTAGES AT SURFACE: 2176' FNL, 1568' FWL  COUNTY: Duchesne					
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 18 T5S R3W STATE:					
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION TYPE OF ACTION					
NOTICE OF INTENT  ACIDIZE  DEEPEN  REPERFORATE CURRENT	ORMATION				
(Submit in Duplicate)  ALTER CASING  FRACTURE TREAT  SIDETRACK TO REPAIR WE	T				
Approximate date work will start: CASING REPAIR NEW CONSTRUCTION TEMPORARILY ABANDON					
CHANGE TO PREVIOUS PLANS OPERATOR CHANGE ITUBING REPAIR					
CHANGE TUBING PLUG AND ABANDON VENT OR FLARE					
SUBSEQUENT REPORT CHANGE WELL NAME PLUG BACK WATER DISPOSAL (Submit Original Form Only)					
Date of work completion:  CHANGE WELL STATUS  PRODUCTION (START/RESUME)  WATER SHUT-OFF					
COMMINGLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE OTHER:					
CONVERT WELL TYPE RECOMPLETE - DIFFERENT FORMATION					
DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  This well has been converted to a water injection well to support the ongoing secondary waterflood currently active in Antelope Creek. The rods and tubing have been pulled from this well. The injection string consists of 2 3/8" 4.7#, J-55 EUE tubing. The packer is installed at 4233' +/- KB. Packer fluid has been circulated on the backside and a successful MIT test performed and submitted to the EPA. The following perforations were also added to the well: B10 4311' - 4316', B10 4318' - 4322', B11.1 4340' - 4345', C6 4734' - 4746'. C9.244868' - 4872' with 4" csg, 4 spf, .25 gram, 47" penetrating, 90 degree phasing.					
NAME (PLEASE PRINT) Steve Wall TITLE District Manager					
SIGNATURE SIGNATURE DATE 3/16/2006					

(This space for State use only)

RECEIVED MAR 1 7 2006



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18<sup>TH</sup> STREET - SUITE 300
DENVER, CO 80202-2466
Phone 800-227-8917
http://www.epa.gov/region08

MAR 1 0 2006

Ref: 8P-W-GW

#### <u>CERTIFIED MAIL</u> RETURN RECEIPT REQUESTED

Steve Wall, District Manager Petroglyph Energy, Inc. 4116 West 3000 So. Ioka Lane Roosevelt, UT 84066

RE: Additional Well to Antelope Creek Area Permit

<u>UIC Permit No. UT20736-00000</u>

Well ID: UT20736-06678

Ute Tribal No.18-06, Duchesne County, Utah

Dear Mr. Wall:

Thank you for submitting information pertaining to the newly constructed or converted Ute Tribal 18-06 enhanced recovery injection well to the Region 8 Ground Water Program office of the Environmental Protection Agency (EPA). The "Prior To Commencing Injection" requirements for the Ute Tribal 18-06 injection well required well owner and operator Petroglyph Energy, Inc. to submit the following information to the Director:

- 1. A successful mechanical integrity test (MIT) demonstrating Part I Internal MI,
- 2. Pore pressure calculation of the proposed injection zone, and
- 3. completed EPA Form No. 7520-12.

All required information has been submitted, and has been reviewed and approved by the EPA. Therefore, effective upon your receipt of this letter, Administrative approval hereby is granted for injection into the Ute Tribal 18-06 enhanced recovery injection well under the conditions of the Authorization for Additional Well and UIC Area Permit UT20736-00000 as modified.

As of this approval, responsibility for permit compliance and enforcement is transferred to the Region 8 UIC Technical Enforcement Program office. Therefore, please direct all future notification, reporting, monitoring and compliance correspondence to the following address, referencing your well and UIC Permit number on all correspondence regarding this well.

Technical Enforcement Program - UIC
U.S. EPA Region 8, Mail Code 8ENF-UFO
999 18th Street, Suite 300
Denver, Colorado 80202-2466

The Director has determined that the maximum allowable surface injection pressure (MAIP) for the Ute Tribal 18-06 is <u>1575</u> psig. Please be reminded that it is the responsibility of the owner/operator to be aware of, and to comply with, all conditions of <u>Authorization for Additional Well UT20736-06678</u> and EPA UIC Area Permit UT20736-00000 and relevant modifications as issued.

If you have any questions regarding this Authorization, please call Tricia Pfeiffer of my staff at (303) 312-6271. For questions regarding notification, testing, monitoring, reporting or other Permit requirements, the UIC Technical Enforcement Program may be reached by calling (800) 227-8917.

Sincerely,

Tracy M. Eagl

Director

Ground Water Program

cc: Maxine Natchees, Acting Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe
P.O. Box 190
Fort Duchesne, UT 84026

Chester Mills, Superintendent BIA - Uintah & Ouray Indian Agency P.O. Box 130 Fort Duchesne, UT 84026

Mr. Kenneth Smith
Executive Vice President and Chief Operating Officer
Petroglyph Energy, Inc.
555 S. Cole Blvd
Boise, ID 83709

S. Elaine Willie Environmental Coordinator Ute Indian Tribe P.O. Box 460 Fort Duchesne, UT 84026

Gil Hunt Technical Services Manager Utah Division of Oil, Gas, and Mining 1594 West North Temple - Suite 1220 Salt Lake City, UT 84114-5801

Kirk Fleetwood, PE BLM - Vernal District 170 South 500 East Vernal, UT 84078